AIRCRAFT PNEUDRAULIC SYSTEMS MECHANIC CAREER LADDER AFSC 423X4(U) AIR FORCE OCCUPATIONAL MEASUREMENT CENTER RANDOLPH AFB TX JUN 84 AD-A143 019 172 UNCLASSIFIED F/G 5/9 NL



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UNITED STATES AIR FORCE

AD-A143 019

OGGUPATION SURVEY

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AIRCRAFT PNEUDRAULIC SYSTEMS MECHANIC CAREER LADDER

AFSC 423X4 AFPT 90-423-505

JUNE 1984

OCCUPATIONAL ANALYSIS PROGRAM
USAF OCCUPATIONAL MEASUREMENT CENTER
AIR TRAINING COMMAND
RANDOLPH AFB, TEXAS 78150

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PREFACE

This report presents the results of an Air Force occupational survey of the Aircraft Pneudraulic Systems Mechanic career ladder (AFSC 423X4). Authority for conducting occupational surveys is contained in AFR 35-2. Computer printouts from which this report was produced are available for use by operating and training officials upon request.

The survey instrument was developed by Chief Master Sergeant Donald J. Cochran, Inventory Development Specialist. Ms Faye Shenk, Occupational Analyst, analyzed the data and wrote the final report. Ms Elvira Frechel provided computer programming support for the project. This report has been reviewed and approved by Lieutenant Colonel Jimmy L. Mitchell, Chief, Airman Career Ladders Analysis Section, Occupational Analysis Branch, USAF Occupational Measurement Center, Randolph Air Force Base, Texas 78150.

Copies of this report are distributed to Air Staff sections, major commands, and other interested training and management personnel. Additional copies may be obtained upon request to the USAF Occupational Measurement Center, Attention: Chief, Occupational Analysis Branch (OMY), Randolph Air Force Base, Texas 78150.

PAUL T. RINGENBACH, Col, USAF Commander USAF Occupational Measurement Center

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WALTER E. DRISKILL, Ph.D. Chief, Occupational Analysis Branch USAF Occupational Measurement Center

SUMMARY OF RESULTS

- 1. <u>Survey Coverage</u>: The Aircraft Pneudraulic Systems career ladder was surveyed to obtain current data for use in training management decisions. The inventory was administered worldwide to 1,751 respondents. All major commands were well represented in the survey sample.
- 2. Specialty Jobs (Career Ladder Structure): Two clusters and 10 independent job types were identified in the 423X4 career ladder. Sixty-one percent of the incumbents were included in the Flightline Pneudraulics Personnel cluster, which represents the main job of the career field. Within this cluster, job groups based on type of aircraft were identified. A second cluster was composed of predominantly in-shop supervisors. Independent job types consisted of personnel grouped as: Pneudraulic Flightline Supervisors, General Pneudraulic Mechanics, Pneudraulic In-Flight Refueling Equipment Mechanics, In-Shop Pneudraulic Repairmen, CUT Personnel, Training Supervisors and FTD Instructors, Technical School Instructors, In-Flight Refueling Equipment Instructors, MAC Inspectors, and SAC Quality Control Personnel.
- 3. <u>Career Ladder Progression</u>: The 423X4 career ladder follows a typical pattern of progression through the skill levels. Three- and 5-skill level personnel are performing basically technical tasks. Seven-skill level personnel perform technical tasks, as well as supervisory and management roles.
- 4. <u>Career Ladder Documents</u>: The AFR 39-1 Specialty Descriptions provide an accurate overview of the 423X4 career ladder. Both the STS and POI were well supported by data but should be reviewed since a number of tasks performed by first-enlistment personnel were not matched to these documents. The unmatched tasks should be reviewed to determine their applicability to these documents.
- 5. Implications: The 423X4 career ladder does not appear to have changed significantly since the 1976 survey. The added inflight refueling responsibilities have been absorbed by the using commands without any apparent difficulty. Training managers should review the items not matched to the STS or POI for relevancy. Consideration for training must be made on which factors are representative of basic pneudraulic functions and which are aircraft-specific and more feasibly taught through follow-on training on members' first assignment. In career fields such as the 423X4, it is important to retain a sufficient number of experienced personnel for effective follow-on training.

OCCUPATIONAL SURVEY REPORT AIRCRAFT PNEUDF.AULIC SYSTEMS CAREER LADDER (AFSC 423X4)

INTRODUCTION

This is a report of an occupational survey of the Aircraft Pneudraulic Systems career ladder (AFSC 423X4) conducted by the Occupational Analysis Branch, USAF Occupational Measurement Center. The present survey was requested by the 3330 TCHTW/TTGKS, Chanute AFB IL. This specialty was last analyzed in 1976.

Background

The historical progression of the 423X4 career ladder dates from 1951, when AFSC 425X0, Aircraft Hydraulic Mechanics, was created. In 1954, the career ladder was changed to AFSC 421X2, Aircraft Hydraulic Repairman. In 1959, the career field title changed to Aircraft and Missile Hydraulic Repairman, and in 1960, it was renamed Aircraft and Missile Pneudraulic Repairman. In 1976, AFSC 421X2 became AFSC 423X4, Aircraft Pneudraulic Systems (the present AFSC). During 1977, the In-Flight Refueling System Mechanics from AFSC 423X6 were incorporated into the 423X4 career ladder. (In-Flight Refueling Operators became AFSC 11230 career ladder in 1975.)

As described in AFR 39-1 Specialty Descriptions, Arcraft Pneudraulic Systems personnel are responsible for inspecting, troubleshooting, installing, repairing, overhauling, and modifying aircraft pneumatic, hydraulic, and in-flight refueling systems and associated aerospace ground equipment.

Primary entry into the career ladder is through a 9-week, 4-day course (C3ABR42334 000) consolidated at Chanute AFB IL. A supplemental course (C3AZR42334 000), In-Flight Refueling Systems, is designed for personnel assigned to SAC. This is a 2-week, 1-day course at Chanute AFB IL.

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SURVEY METHODOLOGY

Inventory Development

The data collection instrument for this occupational survey was USAF Job Inventory AFPT 90-423-505, dated July 1982. This inventory booklet was composed of two parts: a background section in which job incumbents provided information such as grade, duty title, time in service, job satisfaction, and equipment used, and a duty-task list section in which incumbents indicate the tasks they perform and the relative amount of time spent on those tasks. There were 730 tasks grouped under 12 duty headings.

Survey Administration

Consolidated Base Personnel Offices (CBPO) in operational units world-wide administered the inventory to personnel holding AFS 423X4. These job incumbents were selected from a computer-generated mailing list obtained from personnel data tapes maintained by the Air Force Human Resources Laboratory (AFHRL).

Each individual completed the background information section and checked each task performed on their current job. After checking the tasks performed, the incumbent rated each task on a 9-point scale showing relative time spent on that task compared to other tasks performed. The ratings ranged from one (very small amount of time spent) through five (above average time spent) to nine (very large amount time spent).

To determine relative time spent for each task checked by a respondent, all of an incumbent's ratings are assumed to account for 100 percent of incumbent's time spent on the job and are summed. Each task rating is then divided by the total task ratings and then multiplied by 100. This procedure provides a basis for comparison of tasks in terms of percent members performing and average percent time spent.

Survey Sample

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Personnel were selected to participate in this survey to ensure an accurate representation across major commands (MAJCOM) and paygrade groups. All eligible AFSC 423X4 personnel were mailed inventory booklets in November 1982. Approximately 880 booklets from this initial administration were lost when the car of the sergeant who was performing a quality review of returned booklets was stolen. With the concurrence of personnel at the technical school at Chanute Technical Training Center and technical training personnel at HQ ATC, it was decided to readminister the inventory to those 880 personnel to try to recover as many of these respondents as possible. The mailing list was screened to ensure airmen who had previously completed a booklet and in the possession of OMC would not be asked to do so again.

The final sample included 1,751 respondents, representing 59 percent of the 423X4 career field. Although a 59 percent return rate is lower than normally accepted (desirable return rate is 75 percent), it was decided to go ahead with the sample available rather than to delay this project further.

Table 1 shows the percentage distribution, by major command, of assigned personnel in the career ladder as of 29 June 1983. Also listed in this table is the percent distribution, by major command, of respondents in the final survey sample. As can be seen from this data, the sample generally parallels assigned strength. The 1,751 respondents included in the final sample represent 59 percent of the 423X4 career field eligible for the survey.

Table 2 reflects the paygrade group distribution, while Table 3 lists the sample distribution by TAFMS. As reflected in these tables, the survey sample provides a good representation of the career ladder population.

These tables also provide an overview of the individuals in the career field. As shown in Table 1, the operational commands are the prime utilizers of 423X4 career field personnel. The tactical forces (TAC, PACAF, and USAFE) represent 45 percent of the career ladder assignments.

The Aircraft Pneudraulic Systems career field is a relatively junior force. Sixty-two percent are in paygrades E-4 and below; 56 percent of those assigned are in their first enlistment. In addition, only 25 percent (see Table 3) are in career status (third enlistment or beyond). In maintenance career fields, such as 423X4 which service a very diverse range of systems, maintaining a core of experienced personnel is very important to provide continuity in the career field.

TABLE 1

COMMAND REPRESENTATION OF SURVEY SAMPLE

COMMAND	PERCENT OF ASSIGNED*	PERCENT OF SAMPLE
TAC	30	23
MAC	24	26
SAC	20	24
USAFE	11	10
ATC	7	9
PACAF	4	3
AFSC	2	2
AFLC	1	2
AAC	1	1

* As of April 1983

Total Assigned: 3,630

Total Number Eligible: 2,991

Total in Sample: 1,751

Percent of Assigned in Sample: 48% Percent of Eligible in Sample: 59%

TABLE 2
PAYGRADE REPRESENTATION OF SURVEY SAMPLE

PAYGRADE	PERCENT OF ASSIGNED*	PERCENT OF SAMPLE
E-1, 2, or 3 E-4	40	40
E-4	23	22
E-5	22	22
E-6	10	11
E-7	5	5

^{*} As of April 1983

TABLE 3
TAFMS DISTRIBUTION OF SURVEY SAMPLE

			MONTHS	IN SERVICE	<u> </u>	
	1-48	49-96	97-144	145-192	193-240	241+
NUMBER IN AFS 423X4 SAMPLE	866	. 384	216	151	85	26
PERCENT OF AFS 423X4 SAMPLE	50%	22%	12%	9%	5%	2%
PERCENT OF AFS 423X4 ASSIGNED*	56%	19%	10%	9%	5%	1%

* As of April 1983

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Task Factor Administration

In addition to completing the job inventory, selected senior 423X4 personnel were also asked to complete a second booklet for either task difficulty (TD) or training emphasis (TE). The TD and TE booklets are processed separately from the job inventories. The rating information is used in several analyses discussed in this report. Table 4 reflects the command represented for the TD and TE raters. There is a reasonable distribution of raters across command; thus, the ratings seem acceptable as a representative sample.

Task Difficulty. Each person completing a task difficulty booklet was asked to rate all inventory tasks on a 9-point scale (from extremely low to extremely high) as to relative difficulty of each task. Difficulty is defined as the length of time required by an average incumbent to learn to do the task. Task difficulty data were independently collected from 66 experienced 423X4 NCOs stationed worldwide. The interrater reliability (as assessed through components of variance of standard group means) was .95, which reflects high agreement among raters. Ratings were adjusted so tasks of average difficulty would have a 5.00 rating and a standard deviation of 1.0. The resulting data are essentially a rank ordering of tasks indicating the degree of difficulty for each task in the inventory.

Job Difficulty Index (JDI). After determining the task difficulty index for each task item, a Job Difficulty Index (JDI) was computed for the job groups identified in the survey analysis. The JDI provides a relative measure of which jobs, in comparison to other jobs, are more or less difficult. An equation using the number of tasks performed and the average difficulty per unit time spent (ADPUTS) as variables are the basis for the JDI. Thus, the more time a group spends on difficult tasks and the more tasks they perform, the higher JDI. The index ranges from 1.0 for very easy jobs to 25.0 for

very difficult jobs. The measurements are adjusted so the average JDI is 13.0.

Training Emphasis. Individuals completing training emphasis booklets were asked to rate tasks on a 10-point scale from no training required to extremely heavy training required. Training emphasis is a rating of which tasks require structured training for first-term personnel. Structured training is defined as training provided at resident technical schools, field training detachments (FTD), mobile training teams (MTT), formal OJT, or any other organized training method. Training emphasis data were independently collected from 65 experienced 423X4 personnel stationed worldwide. The interrater reliability (as assessed through components of variance of standard group means) was .96, which indicates a high degree of agreement. Tasks rated highest in training emphasis had ratings of 4.09 and above, with an average emphasis rating of 2.50.

When used in conjunction with other factors, such as percent members performing, task difficulty and training emphasis ratings can provide insight into training requirements. Such information helps in evaluating efficiency of training programs.

TABLE 4

COMMAND REPRESENTATION OF 423X4 TASK DIFFICULTY
AND TRAINING EMPHASIS RATINGS

COMMAND	PERCENT OF ASSIGNED*	PERCENT OF TASK DIFFICULTY RATERS	PERCENT OF TRAINING EMPHASIS RATERS
TAC	30	26	30
MAC	24	15	22
SAC	20	26	24
USAFE	11	12	8
ATC	7	14	2
PACAF	4	1	6
AFSC	2	-	3
AFLC	1	1	3
AAC	1	5	2

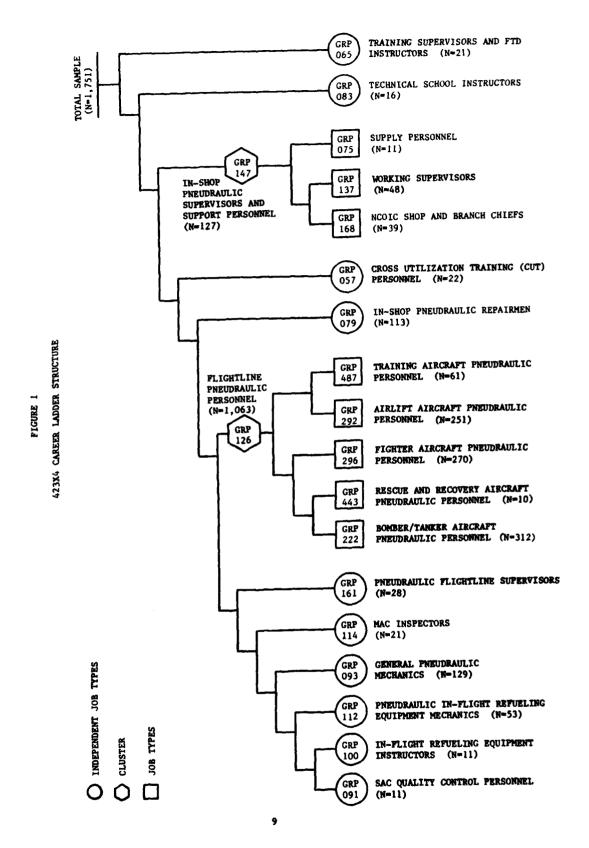
^{*} As of April 1983

SPECIALTY JOBS (Career Ladder Structure)

The USAF Occupational Analysis Program includes an examination of the career ladder structure. This analysis is based on what incumbents indicate they are doing in the field, determined from task responses. Each person in the survey performs a set of tasks called their position. A group of positions where many similar tasks are performed and incumbents spend similar amounts of time performing them is called a job type. Job types having a substantial degree of commonality are grouped and called a cluster. Specialized job types too dissimilar to fit within a cluster are labeled independent job types.

The career ladder division is based on tasks performed and the amount of time spent on those tasks. The grouping of jobs performed in the 423X4 career ladder is illustrated in Figure 1. The cluster, job types, and independent job types are listed below. The group (GRP) number is a reference to computer printed information. The letter "N" stands for the number of personnel in the group.

- I. FLIGHTLINE PNEUDRAULIC PERSONNEL (GRP126, N=1,063)
 - A. Training Aircraft Pneudraulic Personnel (GRP487, N=61)
 - B. Airlift Aircraft Pneudraulic Personnel (GRP292, N=251)
 - C. Fighter Aircraft Pneudraulic Personnel (GRP296, N=270)
 - D. Rescue and Recovery Aircraft Pneudraulic Personnel (GRP443, N=10)
 - E. Bomber/Tanker Aircraft Pneudraulic Personnel (GRP222, N=312)
- II. PNEUDRAULIC FLIGHTLINE SUPERVISORS (GRP161, N=28)
- III. GENERAL PNEUDRAULIC MECHANICS (GRP93, N=129)
- IV. PNEUDRAULIC IN-FLIGHT REFUELING EQUIPMENT MECHANICS (GRP112, N=53)
- V. IN-SHOP PNEUDRAULIC SUPERVISORS AND SUPPORT PERSONNEL (GRP47, N=127)
 - A. Supply Personnel (GRP75, N=11)
 - B. Working Supervisors (GRP137, N=48)
 - C. NCOIC Shop and Branch Chiefs (GRP168, N=39)
- VI. IN-SHOP PNEUDRAULIC REPAIRMEN (GRP79, N=113)
- VII. CROSS UTILIZATION TRAINING (CUT) PERSONNEL (GRP57, N=22)
- VIII. TRAINING SUPERVISORS AND FTD INSTRUCTORS (GRP65, N=21)



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- IX. TECHNICAL SCHOOL INSTRUCTORS (GRP83, N=16)
- X. IN-FLIGHT REFUELING EQUIPMENT INSTRUCTORS (GRP100, N=11)
- XI. MAC INSPECTORS (GRP114, N=21)
- XII. SAC QUALITY CONTROL PERSONNEL (GRP91, N=11)

Ninety-two percent of the survey respondents were performing the jobs grouped within the 2 clusters and the 10 independent job types. The remaining 8 percent performed tasks or a series of tasks that did not group with any of the defined job types. Some of the job titles given by respondents which were representative of these personnel include: Maintenance Job Controller, ISO Dock Supervisor, Resource Advisor, Engine Time Change Monitor, and TO Monitor.

Job Descriptions

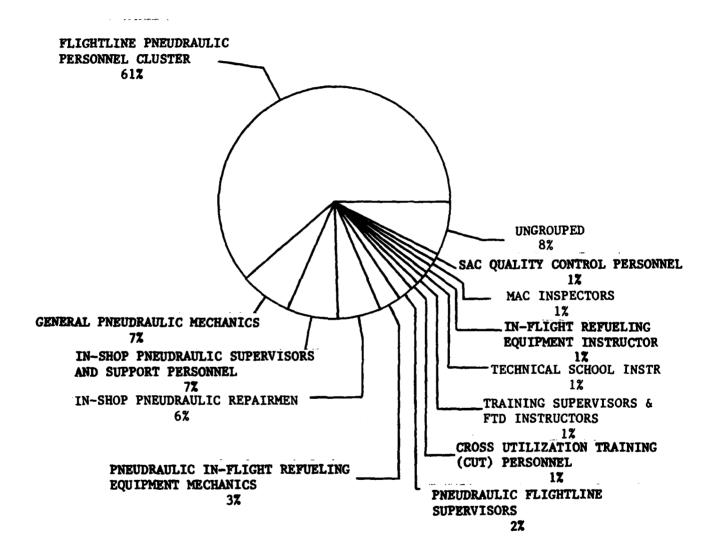
The following paragraphs describe the job groups identified from the computer analysis. Figure 2 illustrates the relative size of each cluster and independent job type within the total sample. Selected background and job satisfaction information is provided for these groups in Tables 5 and 6. Table 7 shows the relative percent time spent on duty areas by job groups. Representative tasks for the clusters and independent job types are given in Appendix A.

I. FLIGHTLINE PNEUDRAULIC PERSONNEL (GRP126, N=1,063). Cluster members, 61 percent of the total sample, represent the core job of this career field. The average grade is E-4; 67 percent hold a 5-skill level DAFSC. Approximately half are in their first enlistment. Average months in the service is 67, with an average of 60 months in the career field. Command membership includes: MAC (29 percent), SAC (28 percent), TAC (21 percent), USAFE (10 percent), ATC (6 percent), PACAF (2 percent), AFSC (2 percent), AAC (1 percent), and AFLC (1 percent). Twenty-four percent of this group are assigned overseas.

Members of this cluster perform an average of 186 tasks. Their time is spent primarily on technical tasks involving:

removing, installing, and servicing pneudraulic systems (18 percent)
performing operational checks of aircraft pneudraulic systems (15 percent)
inspecting aircraft installed pneudraulic systems (13 percent)
isolate malfunctions within aircraft pneudraulic systems (11 percent)

FIGURE 2
423X4 CAREER LADDER STRUCTURE



The focus of their job is primarily on flightline maintenance (two-thirds indicate they work primarily flightline). Although the job emphasis is centered on flightline duties, they also spend about 10 percent of their time completing in-shop maintenance.

Many tasks are performed in common by members of this cluster regardless of aircraft worked on. Most perform tasks related to brake systems, landing gear systems, nose gear, and steering systems. Specific examples of tasks are:

perform operational checks of nose wheel steering systems
perform operational checks of brake systems remove or install engine driven hydraulic pumps bleed or service brakes remove or install components of landing gear retraction or extension systems remove or install hydraulic filter assemblies or elements

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Within the cluster, five job groups were identified. The primary factor which distinguished these job types is the performance of tasks related to specific types of aircraft. While the separate job groups show unique characteristics, they also have a common bond with other members of the cluster. Job groups are discussed below.

A. Training Aircraft Pneudraulic Personnel (GRP487, N=61). This rather junior group is primarily responsible for flightline maintenance on the T-37B and T-38A. Ninety-two percent are assigned to ATC. Although their average time in the career field is only 33 months, 90 percent have obtained the 5-skill level. Seventy-four percent are in their first enlistment (average grade is between E-3 and E-4).

Members are performing a very technical job involving an average of 138 tasks, with a JDI of 13.2. The tasks listed below illustrate the type of technical undertakings performed specifically by members of this job group.

bench check brake master cylinders
remove or install components of horizontal tail or
stabilizer systems
adjust components of nose wheel steering systems
adjust hydraulic components of aileron systems
adjust components of speed brake systems
assemble or disassemble aircraft reservoirs
adjust landing gear door components

Equipment used more by these incumbents than their counterparts in other groups include brake lining grinders, face gauges, spring compressors, and compression riveter machines. Many parts on the T-37 and T-38 are more easily repaired than on more complex aircraft. This may account for the unique use of these equipment items.

B. Airlift Aircraft Pneudraulic Personnel (GRP292, N=251). Eighty-eight percent of the members are assigned to MAC. They perform basic flightline pneudraulic maintenance on the C-5A, C-130B, C-130E, C-130H, C-141B, and T-39A. Tasks uniquely performed by representatives of this job type are:

Perform operational checks of elevator systems remove or install elevator systems remove or install cargo doors inspect aircraft installed elevator boost pack assemblies isolate malfunctions to elevator systems isolate malfunctions to cargo doors

They perform an average of 153 tasks, with a JDI of 14.4.

Most members of this group hold a DAFSC of 42354. Their average time in the career field is 53 months; average time in the service is 58 months. Fifty-eight percent are in their first enlistment. Average grade is E-4.

C. <u>Fighter Aircraft Pneudraulic Personnel (GRP296, N=270)</u>. The majority of these personnel are assigned to the tactical commands (TAC, PACAF, and USAFE), with 40 percent serving overseas. Primary aircraft serviced (by 10 percent or more of the group members) are A-10A, F-4E, F-16A, F-16B, and RF-4C.

Members are in their second tour of duty (average TAFMS is 62 months). Sixty-eight percent hold a 5-skill level and 22 percent have attained the 7-skill level. Average grade is E-4.

Performing their flightline duties involves such tasks as:

walk wings or tails during aircraft towing operations jack or level aircraft position or remove aircraft chocks or ground safety pins tow aircraft

Tasks specific to the aircraft members service include:

perform operational checks of pneudraulic arresting
 hook systems
inspect aircraft installed pneudraulic arresting
 hook systems

Group members do not perform as many of the common tasks associated with in-shop maintenance or maintaining AGE or shop equipment. This lack of performance of duties in this area is probably a function of the COMO (formerly POMO) organization concept employed by the representative commands.

Members of this group perform an average of 142 tasks, resulting in a JDI of 13.7.

D. Rescue and Recovery Aircraft Pneudraulic Personnel (GRP443, N=10). This small group from MAC specializes in aircraft associated with rescue and recovery missions. They are predominantly associated with the HC-130H, HC-130N, HC-130P, UH-1F, UH-1N, HH-3E, and the HH-53B. They perform an average of 198 tasks (JDI is 16.7) related primarly to helicopter functions, in addition to refueling activities (HC-130). Tasks performed by this group include:

inspect air refueling hydraulic systems isolate malfunctions within rotor brake systems isolate malfunctions within rotor wing collective control systems remove or install components of air refueling hydraulic systems adjust cyclic servo cylinder assemblies perform operational checks of air refueling hydraulic systems

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This job type represents a more senior group performing pneudraulic maintenance on rescue and recovery aircraft. Their average grade is E-5. Eight of the ten indicate they hold a DAFSC of 42374. Members have an average of 124 months TAFMS. All ten indicate they are supervising. Half of the group are serving in overseas positions.

E. Bomber/Tanker Aircraft Pneudraulic Personnel (GRP222, N=312). This job type achieves uniqueness through the performance of in-flight refueling tasks. Ninety-four percent of the respondents are assigned to SAC and service the B-52G, B-52H, KC-135A, and KC-135Q.

Accomplishing an average of 209 tasks, they perform a broader range of tasks than any other job group. Their JDI is 18.1, which is also the highest for any group in the sample. Tasks unique to this group include:

perform operational checks of air refueling signal systems
perform operational checks of air refueling indicating systems
perform operational checks of air refueling electrical systems
remove or install components of air refueling hydrulic systems
rig air refueling boom control cables

The majority of the members have achieved the 5-skill level (68 percent). Their average grade is E-4. Most are in their second enlistment (average TAFMS is 77 months) and have served an average of 67 months in the career field. Forty-three percent of these incumbents are in their first enlistment.

II. PNEUDRAULIC FLIGHTLINE SUPERVISORS (GRP161, N=28). Eighty-two percent of these incumbents indicate they direct flightline repair operations. In addition to supervising (82 percent), they spend 17 percent of their time inspecting pneudraulic systems and 12 percent of their time performing operational checks. Additional duties performed by this group are tool kit monitor, dispatch monitor, and OJT training monitor. They perform an average of 128 tasks (JDI is 13.3) related to the following basic aircraft: C-5A, C-141B, T-37B, and T-38A. Representative tasks include areas such as:

inspecting aircraft installed brake, nose wheel, landing gear, shock struts, and hydraulic power systems supervising 5-skill level personnel reviewing maintenance data collection forms clearing Red X conditions writing APRs

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Seventy-five percent of this senior group of personnel (average grade is E-6) hold a 7-skill level. Average time in the service is 156 months; 141 months average time in the career field.

III. GENERAL PNEUDRAULIC MECHANICS (GRP93, N=129). This independent job type represents a group of predominantly (77 percent) first-enlistment personnel completing fundamental tasks associated with pneudraulic systems and components. For instance, they perform such basic tasks as:

service aircraft hydraulic systems
bleed or service brake systems
remove or install engine driven hydraulic pumps
perform operational checks of nose wheel steering
systems

They spend 25 percent of their time removing, installing, and servicing pneudraulic systems and components. An additional 20 percent of their time is spent performing operational checks on these systems. Their job focuses on flightline maintenance, although they do spend a small amount of time on in-shop activities. Representative aircraft (maintained by at least 10 percent of the members) for this group, assigned primarily to MAC, TAC, and USAFE, include: C-5A, C-141B, F-4E, F-15C, F-15D, F-16B, and the T-38A.

Members perform an average of 74 tasks (primarily technical), with a JDI of 9.0. The performance of a relatively small number of tasks is indicative of a junior group of personnel. Most of these individuals are 5-skill level personnel. They have been in the career field an average of 34 months. The average time in service is 41 months and average grade is between E-3 and E-4.

IV. PNEUDRAULIC IN-FLIGHT REFUELING EQUIPMENT MECHANICS (GRP112, N=53). This group performs basically the same tasks as members of the General Mechanics job type. In addition, they perform fundamental tasks associated with in-flight refueling equipment. Ninety-eight percent of these respondents are assigned to SAC. They are performing flightline maintenance on the B-52G, B-52H, FB-111A, KC-135A, KC-135Q, and T-38A. They perform an average of 84 tasks (JDI is 10.4) primarily in the areas of removing, installing, servicing, and performing operational checks on pneudraulic systems and components.

This group includes 3- and 5-skill level incumbents, with an average grade between E-3 and E-4. The average time in the career field is 36 months, with 44 months average TAFMS. Tasks which typify this job are:

remove or install components of air refueling boom assemblies rig air refueling boom control cables remove or install engine drive hydraulic pumps perform operational checks of brake systems perform operational checks of air refueling hydraulic systems

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V. IN-SHOP PNEUDRAULIC SUPERVISORS AND SUPPORT PERSONNEL (GRP47, N=127). This cluster includes some of the most experienced incumbents in the career field. The majority hold a 42374 skill level (average grade is between E-5 and E-6). They average 152 months TAFMS, with an average of 140 months in the career field. The cluster includes personnel across all commands.

As would be expected of 7-skill level personnel, they are spending approximately 60 percent of their time performing management type functions. Ninety-one percent are supervising. They are engaged in such tasks as:

writing APRs
counseling personnel
clearing Red X conditions
supervising 5-skill level personnel
coordinating with base supply in obtaining parts

Operating primarily in a shop environment, they also assume such additional responsibilities as Bench Stock Monitor, Composite Tool Kit Monitor, Due-infor Maintenance Monitor, Equipment Monitor, In-Shop PMEL Monitor, and OJT Monitor.

Members of the cluster perform an average of 115 tasks, which are basically administrative. JDI for this sample is 11.0.

Within the cluster, there are three separate job groups.

A. Supply Personnel (GRP75, N=11). These 11 incumbents perform a more restricted supply job. Members perform an average of 49 tasks, with 27 tasks accounting for 50 percent of their work time. The JDI for this group is 3.0, which is the lowest among the job types. The group includes 5- and 7-skill level personnel (average grade is E-5). The average time in the career field is 98 months, with 109 months average TAFMS.

Their job is centered on performance of supply and administrative-related duties. Over half of their work time is spent on these two areas. Six of the 11 members hold supervisory positions. Examples of tasks performed by this job type are:

maintain consolidated tool kits coordinate with base supply on obtaining parts inventory equipment, tools, or supplies clean tools paint facilities or equipment

B. Working Supervisors (GRP137, N=48). Members of this job group combine administrative and supervisory duties with the performance of in-shop maintenance functions. Tasks which typify this group include:

inspect shop hydraulic test equipment fabricate high pressure rubber hose assemblies fabricate medium pressure rubber hose assemblies certify status of parts supervise 5-skill level personnel inventory equipment, tools, or supplies direct in-shop paeudraulic repair operations conduct OJT

Members of this group are all 5- and 7-skill level incumbents. Their average grade is E-5. They are in their third enlistment. Eighty-eight percent are in supervisory positions. They accomplish an average of 139 tasks, with a JDI of 11.6.

C. NCOIC Shop and Branch Chiefs (GRP168, N=39). These DAFSC 42374 personnel comprise the most senior group (average TAFMS 197 months) in this sample. Their average grade is E-6, with an average of 178 months in the career field.

As would be expected of a group of predominantly 7-skill level personnel (87 percent), they are spending approximately 75 percent of their work time on non-technical tasks. Performing an average of 147 tasks (JDI is 14.2), they complete such activities as:

write APRs
indorse APRs
participate in staff meetings
interpret policies
plan work assignments
maintain maintenance management information and control

Ninety-seven percent are engaged in supervisory activities. Over half are conducting OJT.

VI. IN-SHOP PNEUDRAULIC REPAIRMEN (GRP79, N=113). This fairly large group of 113 incumbents performs in-shop maintenance for a variety of aircraft. At least 10 percent of the members perform maintenance on the following aircraft: A-10A, C-5, C-130E and H, KC-135A, C-141B, F-4C, F-4E, F-15 series, F-16A, F-16B, T-38A, and T-39. Thirty-three percent of their time is spent performing basic shop maintenance tasks such as:

fabricate rubber hose assemblies assemble or disassemble brake assemblies assemble or disassemble accumulators bench check hydraulic actuators

Most (76 percent) of the members in this job type are in their first enlistment. Their average time in the career field is 31 months; average time in service is 40 months. The majority are assigned to TAC and MAC. These junior incumbents perform an average of 78 tasks, which yields a JDI of 6.8.

VII. CROSS UTILIZATION TRAINING (CUT) PERSONNEL (GRP57, N=22). Members of this independent job type spend 39 percent of their time on cross-utilization training (CUT) tasks. Tasks involving removing, installing, and servicing aircraft pneudraulic systems and components accounts for 14

percent of their time. An additional 11 percent of their time is spent inspecting aircraft-installed pneudraulic systems. They perform an average of 72 tasks (JDI is 5.1), which involve such activities as:

service aircraft hydraulic systems tow aircraft walk wings launch or recover aircraft operate AGE equipment

Associated aircraft this group services (at least 10 percent members performing maintenance) include: F-D, F-4E, F-5E, F-106A, F-106B, and RF-4C.

Most of these incumbents are 5-skill level (73 percent). They have been in the career field an average of 57 months, although 55 percent indicate they are in their first enlistment. The average time in service is 65 months, with an average grade of E-4. Assigned primarily to TAC, USAFE, and AFLC, 50 percent of this group are serving overseas.

VIII. TRAINING SUPERVISORS AND FTD INSTRUCTORS (GRP65, N=21). These incumbents represent one of the most senior groups (average grade is E-6) in the sample. Their average time in the career field is 149 months, with 157 months average TAFMS. Their career knowledge is being utilized in training less experienced personnel through FTD programs. In addition, five of the members indicate they are instructor/supervisors.

Twenty-seven percent of their time is spent in the area of training and 17 percent performing operation checks. They perform an average of 110 tasks, with a JDI of 13.8. They spend 50 percent of their time on 79 tasks.

A combination of instructor guidance, on-site instruction, plus performance of technical tasks, characterize this independent job type. Tasks which typify this job are:

prepare lesson plans
administer student critiques
administer tests
develop training aids
evaluate instructor performance
perform operational checks of brake systems
perform operational checks of rudder systems

IX. TECHNICAL SCHOOL INSTRUCTORS (GRP83, N=16). The 16 members of this independent job type represent formal training school instructors. Assigned to ATC, 14 are instructors for the basic ABR course at Chanute AFB; 2 are instructors at Williams AFB. Most of these individuals

are 5-skill level personnel. Their average time in the service is 95 months, with an average grade of E-5.

Fifty-one percent of their time is spent on training. (Representative aircraft for training include the F-5B, F-5E, F-5F, and T-38A.) An additional 28 percent of their time is spent performing administrative functions, inspecting and evaluating, and directing and implementing. They perform an average of 38 tasks, with a JDI of 7.6. When compared to the Training Supervisors and FTD Instructors, members of this independent job type are performing a more restricted job, limited to classroom instruction. Representative tasks for the Technical School Instructor personnel include:

score tests prepare lesson plans conduct resident course classroom training administer student critiques

X. IN-FLIGHT REFUELING EQUIPMENT INSTRUCTORS (GRP100, N=11). This is a mixed group of individuals providing training through classroom instruction or FTD courses for tasks associated specifically with in-flight refueling maintenance. Two members are associated with the follow-on course in in-flight refueling at Chanute AFB. Six are assigned to ATC and five to SAC, representing a combined effort to provide specialized training. Their duty time is divided among tasks involving isolating malfunctions, inspecting, and performing operational checks of pneudraulic systems. Examples of tasks which show the range of responsibilities for this group are:

perform operational checks of air refueling hydraulic systems perform operational checks of air refueling boom hoist isolate malfunctions within air refueling signal systems inspect air refueling indicating systems administer student critiques

They perform an average of 95 tasks. Their JDI is 14.7.

This group includes 5- and 7-skill level personnel (average grade is E-5). Their average months in the career field is 92, with an average of 109 months in the service.

XI. MAC INSPECTORS (GRP114, N=21). Incumbents from this independent job type spend 28 percent of their time inspecting pneudraulic systems. In addition, they spent 15 percent of their time performing operational checks of aircraft pneudraulic systems and 14 percent of their time removing, installing, and servicing aircraft pneudraulic systems and components.

This group is composed of 5- and 7-skill level personnel assigned to MAC (95 percent). Generally in their second enlistment, they have an average of 83 months in the career field.

They perform an average of 91 tasks, with a JDI of 10.3. Their job tasks include inspecting aircraft-installed brake systems, elevators, auxiliary hydraulic systems, cargo doors, etc., and performing operational checks on brakes, elevators, cargo doors, aileron systems, and auxiliary hydraulic systems. System inspections and operational checks are performed (by at least 10 percent of the members of this job group) on AC-130H, C-5A, C-130 series, C-141B, and F-4D aircraft (three of the bases where these members are assigned have TAC detachments).

XII. SAC QUALITY CONTROL PERSONNEL (GRP91, N=11). This small group of 11 members are all assigned to SAC. Their job time is concentrated in the areas of inspecting aircraft installed pneudraulic systems (43 percent) and inspecting and evaluating management functions (16 percent). Eighty-two percent are 7-skill level, with an average grade of E-5. Members of this group are in their third enlistment (125 months average TAFMS).

Incumbents perform an average of 67 tasks, with a resulting JDI of 10.4. Examples of tasks which distinguish this group are:

review equipment forms evaluate quality control procedures implement quality control programs investigate accidents or incidents

Comparisons Among Job Groups

Analysis of the 423X4 career ladder structure indicates a basic division of in-shop and flightline groups. Within each of these divisions, there were further divisions based on level of experience. In addition, members in the Flightline Personnel cluster were divided into subgroups or job types, based on type of aircraft maintained. In-Shop Personnel perform a less specialized job, working on similar components from a variety of aircraft systems.

The largest group of incumbents (61 percent) were included in the Flightline Personnel cluster. Members of this cluster performed an average of 186 tasks and have the highest JDI (15.7) for this career field.

The In-Shop Supervisor cluster and the independent job types generally represented smaller groups performing more specialized jobs. Their average number of tasks ranged from 38 to 128. The most senior personnel were found within the NCOIC Shop and Branch Chief's job type (197 months TAFMS) and the Pneudraulic Flightline Supervisors independent job type (156 months TAFMS). The greatest concentration of first-termers was found in the In-Shop Pneudraulic Repairmen and General Pneudraulics Mechanics job types.

Job satisfaction among the 423X4 personnel generally was good (see Table 6). Only two of the job types, Flightline Pneudraulic Supervisors and Supply Personnel, indicated a lower job interest. CUT Personnel were less positive in rating use of their talents and training.

Reenlistment intentions among the pneudraulics groups generally are high. Sixty-seven percent of the Flightline Pneudraulic Personnel cluster, which represents the largest group, indicate they plan to reenlist. The most positive reenlistment attitudes were shown by the Technical School Instructors, Training Supervisors, and FTD Instructors. The groups expressing the lowest positive reenlistment intent were the NCOIC Shop and Branch Chiefs, General Pneudraulics Mechanics, and Supply Personnel. Twenty-eight percent of the NCOIC Shop and Branch Chief job type plan to retire. In view of their time in service, this would not be unexpected. The General Pneudraulic Mechanics job type, however, is primarily first-term personnel and this trend may cause some concern.

Career ladder jobs were also compared for difficulty using the Job Difficulty Index (JDI) described in the <u>Task Factor Administration</u> section of this report. The JDI is calculated from the number of tasks performed and the relative difficulty of these tasks. The Flightline Pneudraulic Personnel job cluster represents the highest JDI (15.7). Within this cluster, the Bomber/Tanker Aircraft Pneudraulic Personnel show an even higher JDI of 18.1. These incumbents also perform the largest average number of tasks which reflect a broader and more difficult job.

The group with the lowest JDI (3.0) was the supply job type where incumbents perform only a few specialized tasks. Others with fairly low JDIs were Technical School Instructors, CUT Personnel, and In-Shop Pneudraulic Repairmen. All of these jobs are limited in scope. In addition, the CUT Personnel and In-Shop Pneudraulic Repairmen job types have high percentages of first-enlistment personnel.

Overall, the 423X4 career field displays a satisfactory degree of job satisfaction and reenlistment potential.

TABLE 5

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SELECTED BACKGROUND DATA FOR 423X4 CAREER LADDER STRUCTURE GROUPS*

	:		OT 110-110	SHOWE GOT GREEN			INDEPE	INDEPENDENT JOB TYPES	YES.
	CLUSTER FLIGHTLINE PREUDRAULIC PERSONNEL (GRP126)	TRAINING AIRCRAFT PNEUDRAULIC PERSONNEL (GRP487)	AIRLIFT AIRCRAFT PNEUDRAULIC PERSONNEL (GRP292)	FIGHTER AIRCRAFT PREUDRAULIC PERSONNEL (GRP296)	RESCUE & RECOVERY AIRCRAFT PREUDRAULIC PERSONNEL (GRP443)	BOYBER/ TANKER TANKAFT PHEUDRAULIC PERSONNEL (GRP222)	PNEUDRAULIC FLIGHTLINE SUPERVISORS (GRP161)	GENERAL PNEUDRAULIC MECHANICS (GRP93)	PNEUDRAULIC IN-FLIGHT REFUELING EQUIPHENT HECHANICS (GRP112)
NUMBER IN GROUP AVERAGE GRADE AVERAGE URBRER OF TASKS	1,063 E-4 186	61 E-3/4 138	251 E-4 153	270 E-4 142	10 E-5 198	312 E-4 209	28 E-6 128	129 E-3/4 74	53 E-3/4 84
DAFSC DISTRIBUTION: 42334 42354	67.	80%	4 7 6	10	0 50 80	59 33	- 25 27	15 77 8	38 57 4
AVERAGE MONTHS IN CAREER FIELD AVERAGE MONTHS IN SERVICE PERCENT IN FIRST ENLISTMENT PERCENT SUPERVISING JOB DIFFICULTY INDEX		33 38 74 34 34 13.2	53 58 58 35 35	55 62 57 57 46 13.7	120 124 20 20 100	67 77 43 54 18.1	141 156 7 82 13.3	34 41 76 21 9.0	36 44 58 26 26 10.4

. None in group * Columns may not add up to 100 percent due to no response or rounding

TABLE 5 (CONTINUED)

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SELECTED BACKGROUND DATA FOR 423X4 CAREER LADDER STRUCTURE GROUPS*

2 22		USIER JUB IIFES	2			TADELE	INDEFERDENT JUD LIFES	5.3		
(GRP47)	SUPPLY PERS (GRP75)	WORKING SUPVs (GRP137)	NCOIC SHOP & BRANCH CHIEFS (GRP168)	IN-SHOP PNEUDRAULIC REPAIRMEN (GRP79)	CROSS UTILIZATION TRAINING (CUT) PERSONNEL (GRP57)	TRAINING SUPERVISORS & FTD (INSTRUCTORS (GRP65)	TECHNICAL SCHOOL INSTRUCTORS (GRP83)	IN-FLIGHT REFUELING EQUIPMENT INSTRUCTORS (GRP 100)	MAC INSPECTORS (GRP114)	SAC QUALITY CONTROL PERSONNEL (GRP91)
NUMBER IN GROUP 127 AVERAGE GRADE E-5 AVERAGE WITHER OF TASKS PERFORMED	11 E-5	48 E-5 139	39 E-6 147	113 E-3 78	22 E-4 72	21 E-6 110	16 E-5 38	11 E-5 95	21 E-4 91	11 E-5 67
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42354 32	24	84	10	69	73	19	69	93	57	6
42374 66	94	25	87	4	18	76	31	54	38	82
AVERAGE HOWTHS IF	98	102	178	31	57	149	91	92	83	121
z	109	111	197	07	\$	157	95	109	88	125
FERCENT IN FIRST ENLISTMENT FERCENT SUPERVISING JOB DIFFICULTY INDEX 11.0	54 3.0	88 11.6	3 97 14.2	76 33 6.8	55 23 5.1	10 33 13.8	31 12 7.6	9 36 14.7	33 38 10.3	9 27 10.4

⁻ Mone in group * Columns may not add up to 100 percent due to no response or rounding

TABLE 6

COMPARISONS OF JOB SATISFACTION INDICATORS BY CAREER LADDER STRUCTURE GROUPS (PERCENT MEMBERS RESPONDING)*

	CLUSTER		CLUSTE	CLUSTER JOB TYPES			INDEP	INDEPENDENT JOB TYPES	PES
	FLIGHTLINE PWEUDRAULIC PERSONNEL (GRP126, N=1,063)	TRAINING AIRCRAFT PHEUDRAULIC PERSONNEL (GRP487, N=61)	AIRLIFT AIRCRAFT PNEUDRAULIC PERSONNEL (GRP292, N=251)	FIGHTER AIRCRAFT PNEUDRAULIC PERSONNEL (GRP296,	RESCUE & RECOVERY AIRCRAFT PNEUDRAULIC PERSONNEL (GRP443, N=10)	BOMBER/ TANKER AIRCRAFT PNEUDRAULIC PERSONNEL (GRP222, N=312)	PNEUDRAULIC FLIGHTLINE SUPERVISORS (GRP161,	GENERAL PNEUDRAULIC MECHANICS (GRP93, N=129)	PNEUDRAULIC IN-FLIGHT REFUELING EQUIPMENT MECHANICS (GRP112, N=53)
EXPRESSED JOB INTEREST:									
Dull SO-SO SO-SO Intersting	5 11 82	2 13 85	4 10 83	5 12 82	0 0 00	8 6 18	11 29 50	9 16 74	7 19 74
PERCEIVED UTILIZATION OF TALENTS:	13.								
LITTLE OR NOT AT ALL FAIRLY WELL TO PERFECTLY	10 89	8 92	8 91	1 86	100	6 06	18 82	16 83	17 83
PERCEIVED UTILIZATION OF TRAINING:	:								
LITTLE OR NOT AT ALL PAINTY WELL TO PERFECTLY	8 06	3 97	7 92	13 85	0 100	2 9	14 82	12 86	9 16
MELILISTMENT INTENTIONS:									
PLANTO RETIRE NO. JR PROBABLY NO. TES, OR PROBABLY TES	e 25 L	31 67	2 27 68	3 27 69	00 00 90	3 74	11 14 71	34 64	2 26 72

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^{*} Columns may not add up to 100 percent due to no response or rounding

TABLE 6 (CONTINUED)

COMPARISONS OF JOB SATISFACTION INDICATORS BY CAREER LADDER STRUCTURE GROUPS (PERCENT HEMBERS RESPONDING)*

	CLUSTER	CIUS	TER JOB TYPES	PES			INDEPE	INDEPENDENT JOB TYPES	SS		
	IN-SHOP PWEUDRAULIC PWEUDRAULIC SUPPORT PERSONNEL (GRP47, N=127)	SUPPLY PERS (GRP75, N=11)	WORKING SUPVS (GRP137, N=48)	NCOIC SHOP & BRANCH CHIEFS (GRP168,	IN-SHOP PNEUDRAULIC REPAIRHEN (GRP79, N=113)	CROSS UTILIZATION TRAINING (CUT) PERSONNEL (GRP57,	TRAINING SUPERVISORS & FTD INSTRUCTORS (GRP65,	TECHNICAL SCHOOL INSTRUCTORS (GRP3),	IN-FLIGHT REFUBLING EQUIPHENT (GR2100,	MAC INSPECTORS (GRP114, N=21)	SAC CONTROL PERSONNEL (GRP91,
EXPRESSED JOB INTEREST:										,	
DULL SO-SO INTERESTING	2 16 77	- 118 64	4 25 71	8 78	6 21 71	4 23 73	. 2.2	12 88 88	9 18 73	5 19 76	001
PERCEIVED UTILIZATION OF TALENTS:	TALENTS										
LITTLE OR NOT AT ALL FAIRLY WELL TO PERFECTLY	.¥ 80	36	15 85	13 82	13 82	36 64	95	19 81	18 82	90 90	100
PERCEIVED UTILIZATION OF TRAINING:	TRAINING:										!
LITTLE OR NOT AT ALL FAIRLY WELL TO PERFECTLY	18 18 80	27 73	15 85	15 82	6 06	9 4 24	ۍ 38	9 76	91	14 86	18 82
REENLISTMENT INTENTIONS:											
PLAN TO RETIRE NO, OR PROBABLY NO YES, OR PROBABLY YES	18 13 68	9 18 64	8 15 77	28 13 59	- 28 70	23 73	7 5 0	1 9 76	27 73	. 19 76	82 82

* Columns may not add up to 100 percent due to no response or rounding

TABLE 7

AVERAGE PERCENT TIME SPENT PERFORMING DUTIES BY CAREER LADDER STRUCTURE GROUPS

		CLUSTER	TRAINING	CLUSTE AIRLIFT AIRCRAFT	CLUSTER JOB TIPES T FIGHTER FI AIRCRAFT	RESCUE & RECOVERY	BOPBER/ TANKER ATRCRAFT	INDEP	INDEPENDENT JOB TIPES	PRS PNEUDRAULIC IN-FLIGHT
DUTIES	2	PMEUDRAULIC PERSONNEL (GRP126, N=1,063)	PREUDRAULIC PERSONNEL (GRP487, N=61)	PNEUDRAULIC PERSONNEL (GRP292, N=251)	PNEUDRAULIC PERSONNEL (GRP296, N=270)	PNEUDRAULIC PERSONNEL (GRP443, N≈10)	PNEUDRAULIC PERSONNEL (GRP222, N=312)	FLIGHTLINE SUPERVISORS (GRP161, N=28)	PNEUDRAULIC HECRANICS (GRP93, N=129)	EQUIPMENT HECHANICS (GRP112, N=53)
8 ≥	ORGANIZING AND PLANNING	71	~ ,	21.0	7	, so	7	6	-	
i	INSPECTING AND EVALUATING	7 6	-	N 60	71 6	vo r	N 6	on c	, r	, ,
O M	TRAIMING PREFERENCE ADMINISTERATIVE	-	1 1		, ⊶	- 4	,	n wh	→	→ 1
: ~ !	FUNCTIONS	v	ve	٧.		ø	4	\$	٠	•
E :	PERFORMING SUPPLY FUNCTIONS	8	m	. ~) ~	רו י	s m	3 4	n ~	א עב
3 T E	IMSTRUING AIRCRAFT INSTALLED PREUDRAULIC SYSTEMS PREPORTING OPPRATIONAL CHECKS	u .e.	12	13	71	11	13	17	01	· v o
: ~	OF AIRCRAFT PREUDRAULIC SYSTEMS AD DISTING PARTITIONALL CONTRACTORS	TEMS 15	13	14	17	11	15	12	20	22
7 2	AND COMPONENTS 1501ATR MAININGTIONS GRITISTE	3	60	w	7	•	~	\$5	9	7
- Z	AIRCRAFT PNEUDRAULIC SYSTEMS REMOVING, INSTALLING, AND	11	æ,	13	12	•	10	1	10	•
· · · · · · · · · · · · · · · · · · ·	SERVICING AIRCRAFT PNEUMAULI SISTEMS AND COMPOMENTS PERPONING IN-SHOP MAINTENANCE	1.1.C 1.8 1.8	17	19	20	15	19	•	25	28
Z Z	OF ALRCRAFT PREUDRAULIC COMPONENTS MAINTAINING SHOP AND ARROSDACE	91 E	17	12	7	vo	12	e	4	gv.
~ 8	GROUND EQUIPMENT (AGE) CROSS UTILIZATION TRAINING (CUT)	cur) 7	40	m v ø	12	en ro	en 4	1 4	1 7	m v p

* Columns may not add up to 100 percent due to rounding . Indicates less than 1 percent

AVERAGE PERCENT TIME SPENT PERFORMING DUTIES BY CAREER LADDER STRUCTURE GROUPS TABLE 7 (CONTINUED)

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	CLUSTER	CLUS	CLUSTER JOB TYPES	PRS			INDEPE	INDEPENDENT JOB TYPES	S		
DUTTES	IN-SHOP PNEUDRAULIC SUPERVISORS & SUPPORT PERSONNEL (GRP47, H=127)	SUPPLY PERS (GRP75,	HORKING SUPVs (GRP137, H=48)	MCOIC SHOP & BRANCH CHIEFS (GRP168,	IN-SHOP PNEUDRAULIC REPAIRMEN (GRP79, N=113)	CROSS UTILIZATION TRAINING (CUT) PERSONNEL (GRP57,	TRAINING SUPERVISORS E. FTD INSTRUCTORS (GRP65, N=21)	TECHNICAL SCHOOL INSTRUCTORS (GRP83, N=16)	IN-FLIGHT REFUELING EQUIPHENT INSTRUCTORS (GRP100,	HAC INSPECTORS (GRP114,	SAC QUALITY CONTROL PERSONNEL (GRP91,
A ORGANIZING AND PLANNING PUBECTING AND	14	60	cc	18		2	9	-4		61	
INPLEMENTING C INSPECTING AND	12	S	∞	15	1	m	ĸ	7	m	1 .73	
EVALUATING D TRAINING E PERFORMING ADMINIS-	14	6	04	19 8	7 :	2	7 27	9 13	ოთ	٣.7	3 6
TRATIVE FUNCTIONS F PERFORMING SUPPLY	16	23	13	14	œ	10	•	12	35	« 0	c,
FUNCTIONS G INSPECTING AIRCRAFT INSTATION PARTITION	a	53	6 0	œ	9	e	e	e	7	4	m
SYSTEMS SYSTEMS BENEVORMING OPERATIONAL CHECKS OF AIRCRAFT	۲. د	red	- C	9	9	11	ĸ	m	15	78	£,
PREUDRAULIC SYSTEMS I ADJUSTING PREUDRAULIC	е	•	4	7	60	9	17	е	16	15	9
SYSTEMS AND COMPONENTS	TS 1	•	7	•	7	7	က	-	11	m	•

* Columns may not add up to 100 percent due to rounding - Indicates less than I percent

TABLE 7 (CONTINUED)

AVERAGE PERCENT TIME SPENT PERFORMING DUTIES BY CAREER LADDER STRUCTURE GROUPS

	-	N=21) N=11)	8	14 2	3 1	2 2	•
INDEPENDENT JOB TYPES	IN-FLICHT REFUELING RQUIPMENT RS INSTRUCTORS (GRP100,	N=11)	16	14	8	•	•
	RS TECHNICAL SCHOOL RS INSTRUCTORS (GRP83.	N=16)	~	•	'n	1	•
IXO	(100	N=21)	10	ĸ	-	1	•
	••••	N=22)	4	14	e	7	ć
 	~ ~ ~ ~	(E113)	7	1 13	3 33	2 11	٠
CLUSTER JOB TYPES	NCOIC SHOP & SUPP CHIEFS	(6E=N (89=)	₹	vo	18	**	•
CLUST	SUPPLY PERS (GRP75.		1	•	ĸ	60	•
CLUSTER	IN-SHOP PNEUDRAULIC SUPERVISORS & SUPPORT PERSONNEL (GRP47,	N=127)	64	e	6	so	•
		DUTTES	ISOLATE MALEUNCTIONS WITHIN AIRCRAFT PHEUDRAULIC SYSTEMS REMOVING, INSTALLING AND SERVICING AIR-	CRAFT PREUDRAULIC SYSTEMS AND COMPONENTS PERFORMING IN-SHOP HALITENANCE OF	AIRCRAFT PREU- DRAULIC CORPORENTS MAINTAINING SHOP AND	AEROSPACE GROUND EQUIPMENT (AGE) PAGE ITTITATION	MOSS ULLILATION

* Columns may not add up to 100 percent due to rounding - Indicates less than 1 percent

ANALYSIS OF DAFSC GROUPS

An analysis of DAFSC groups, in conjunction with the identification and analysis of the job structure of the 423X4 career ladder, is an important part of each occupational analysis. The DAFSC analysis reveals similarities and differences between the various skill levels in relation to the tasks they perform and the relative percentage of time spent on particular duties. This information is used to evaluate the accuracy of career ladder documents, such as the AFR 39-1 Specialty Descriptions and the Specialty Training Standard (STS), as well as to determine potential training needs.

The distribution of skill level groups across the career ladder clusters and independent job types is displayed in Table 8. The largest portion of each skill level is found in the Flightline Pneudraulics Personnel cluster, which represents the mainstream of the career ladder. Table 9 shows examples of tasks performed in common by all skill levels. Many of these tasks are included in the above cluster.

Table 10 presents the relative percent time spent on each duty area across skill-level groups. This table illustrates the pattern of progression for this career field. Three- and 5-skill level personnel are performing basically technical tasks. The main focus of their job involves removing, installing, and servicing pneudraulic systems and components, as well as performing operational checks, inspecting, and performing maintenance on pneudraulic systems. The 7-skill level personnel still perform technical tasks; however, they now spend approximately 43 percent of their time on supervisory and administrative tasks (Duty areas A through F). In addition, as skill level increases so does the breadth of the job and the number of personnel supervising (see below).

SKILL LEVEL	PERCENT OF SAMPLE	AVERAGE # TASKS PERFORMED	PERCENT SUPERVISING
3 (N=178)	10	104	2
5 (N=1,085)	62	141	25
7 (N=467)	27	167	80

Specific skill level groups are discussed below.

Skill Level Descriptions

DAFSC 42334. Three-skill level personnel, representing 10 percent of the survey sample, indicated that approximately 79 tasks accounted for 50 percent of their job time. Table 11 presents representative examples of tasks for this group. They spend 72 percent of their time performing basic pneudraulic maintenance. The greatest concentration of their time is spent removing,

installing, and servicing aircraft pneudraulic systems and components (21 percent), performing operational checks of aircraft pneudraulic systems (15 percent), and performing in-shop maintenance (15 percent).

DAFSC 42354. The 5-skill level incumbents (1,085) comprise 62 percent of the survey sample. They perform a somewhat broader job than their 3-skill level counterparts. One hundred and five tasks account for 50 percent of their job time. They spend their job time basically in the same areas as the 3-skill level personnel: removing, installing, and servicing pneudraulics systems and components (18 percent) and performing operational checks (15 percent). Their job, as shown in Table 12, is still primarily technical. Tasks which differentiate between 3- and 5-skill level personnel are shown in Table 13. The tasks which separate the two skill levels illustrate the initial assumption of some supervisory duties (such as conduct OJT and supervise 3-skill level personnel). In addition, they also further their technical advancement to more "troubleshooting" type tasks.

DAFSC 42374. The 467 7-skill level personnel (27 percent of the sample) perform more administrative and supervisory duties. Approximately 127 tasks account for 50 percent of their job time. Representative tasks for this skill level are given in Table 14. The 7-skill level position is divided between technical areas involving maintenance functions and a more supervisory and administrative role. Tasks which differentiate between the 5- and 7-skill level personnel are shown in Table 15. These differences further illustrate the assumption of a higher role within management of the career field.

TABLE 8

DISTRIBUTION OF DAFSC GROUP MEMBERS ACROSS CAREER LADDER CLUSTERS AND INDEPENDENT JOB TYPES (PERCENT MEMBERS)*

JOB GROUPS	ROUPS	DAFSC 42334 (N=178)	DAFSC 42354 (N=1,085)	DAFSC 42374 (N=467)
I.	FLIGHTLINE PNEUDRAULIC PERSONNEL (GRP126, N=1,063)	43	65	57
		3 6 15	5 17 11	11 13
	 M. M. M	12	17	22
11.	PNEUDRAULIC FLIGHTLINE SUPERVISORS (GRP161, N=28)	1	-	4
III.	GENERAL PNEUDRAULIC MECHANICS (GRP93, N=129)	11	6	7
IV.	PNEUDRAULIC IN-FLIGHT REFUELING EQUIPMENT MECHANICS (GRP112, N=53)	11	ĸ	,
۷.	IN-SHOP PNEUDRAULIC SUPERVISORS AND SUPPORT PERSONNEL (GRP47, N=127)	í	~ †	18
	A. SUPPLY PERSONNEL (GRP75, N=11) B. WORKING SUPERVISORS (GRP137, N=48) C. NCOIC SHOP AND BRANCH CHIEFS (GRP168, N=39)		00:	122
VI.	IN-SHOP PNEUDRAULIC REPAIRMEN (GRP79, N=113)	17	7	H
VII.	CROSS UTILIZATION TRAINING (CUT) PERSONNEL (GRP57, N=22)	1	1	ŧ
VIII.	TRAINING SUPERVISORS AND FTD INSTRUCTORS (GRP65, N=21)	ı	ı	က

TABLE 8 (CONTINUED)

DISTRIBUTION OF DAFSC GROUP MEMBERS ACROSS CAREER LADDER CLUSTERS AND INDEPENDENT JOB TYPES (PERCENT MEMBERS)*

JOB GROUPS	ROUPS	DAFSC 42334 (N=178)	DAFSC 42354 (N=1,085)	DAFSC 42374 (N=467)
IX.	IX. TECHNICAL SCHOOL INSTRUCTORS (GRP83, N=16)	1	~	~
×	X. IN-FLIGHT REFUELING EQUIPMENT INSTRUCTORS (GRP100, N=11)	•	•	 -
XI.	XI. MAC INSPECTORS (GRP114, N=21)	•	;=4	2
XII.	SAC QUALITY CONTROL PERSONNEL (GRP91, N=11)	•	•	7
	OTHER (N=130)**	15	7	7

Denotes less than one percent
 Columns may not add up to 100 percent due to no response and rounding
 Percent of the incumbents were identified by job types

TABLE 9

EXAMPLES OF TASKS COMMON ACROSS 423X4 SKILL LEVELS (PERCENT MEMBERS PERFORMING)

TASKS		DAFSC 42334 (N=178)		DAFSC 42374 (N=467)
E183	MAKE ENTRIES ON AFTO FORMS 349 (MAINTENANCE DATA			
	COLLECTION RECORD)	77	69	75
E187	· · · · · · · · · · · · · · · · · · ·			
	DISCREPANCY AND WORK DOCUMENTS)	77	78	82
H307	PERFORM OPERATIONAL CHECKS OF BRAKE SYSTEMS	76	83	73
E184	MAKE ENTRIES ON AFTO FORMS 350 (REPARABLE ITEM			
	PROCESSING TAG)	75	70	75
K565	REMOVE OR INSTALL ENGINE DRIVEN HYDRAULIC PUMPS	75	79	65
N702	BLEED OR SERVICE BRAKE SYSTEMS	74	79	65
K 575	REMOVE OR INSTALL HYDRAULIC FILTER ASSEMBLIES OR			
	ELEMENTS	70	76	62
K543	REMOVE OR INSTALL COMPONENTS OF LANDING GEAR			
	RETRACTION OR EXTENSION SYSTEMS	67	78	67
K523	REMOVE OR INSTALL COMPONENTS OF AIRCRAFT BRAKE			
	SYSTEMS	65	73	61
H341	PERFORM OPERATIONAL CHECKS OF NOSE WHEEL STEERING			
	SYSTEMS	62	77	67
K546	REMOVE OR INSTALL COMPONENTS OF NOSE WHEEL STEERING			
	SYSTEMS	61	74	60
K 577	REMOVE OR INSTALL TUBE ASSEMBLIES	59	69	59
K 539	REMOVE OR INSTALL COMPONENTS OF HYDRAULIC POWER			
	SYSTEMS	58	68	62
H331	PERFORM OPERATIONAL CHECKS OF HYDRAULIC POWER			
	SYSTEMS	58	69	69
N709	OPERATE AEROSPACE GROUND EQUIPMENT (AGE), SUCH			
	AS POWER UNITS, HEATERS, OR LIGHT CARTS	58	68	63
H357	PERFORM OPERATIONAL CHECKS OF RUDDER SYSTEMS	58	70	66
	REMOVE OR INSTALL COMPONENTS OF SHOCK STRUTS	53	67	61
H332	PERFORM OPERATIONAL CHECKS OF HYDRAULIC PRESSURE			
	INDICATING SYSTEMS	52	65	63

TABLE 10 AVERAGE PERCENT TIME SPENT PERFORMING DUTIES BY DAFSC GROUPS*

DU	TIES	DAFSC 42334 (N=178)	DAFSC 42354 (N=1,085)	DAFSC 42374 (N=467)
A	ORGANIZING AND PLANNING	1	2	8
В	DIRECTING AND IMPLEMENTING	-	2	7
С	INSPECTING AND EVALUATING	1	2	9
D	TRAINING	1	2	6
E	PERFORMING ADMINISTRATIVE FUNCTIONS	8	7	9
F	PERFORMING SUPPLY FUNCTIONS	3	3	4
G	INSPECTING AIRCRAFT INSTALLED PNEUDRAULIC SYSTEMS	10	11	12
H	PERFORMING OPERATIONAL CHECKS OF AIRCRAFT PNEUDRAULIC SYSTEMS	15	15	10
I	ADJUSTING PNEUDRAULIC SYSTEMS AND COMPONENTS	6	6	4
J	ISOLATE MALFUNCTIONS WITHIN AIRCRAFT PNEUDRAULIC SYSTEMS	6	9	7
K	REMOVING, INSTALLING, AND SERVICING AIRCRAFT PNEUDRAULIC SYSTEMS AND COMPONENTS	21	18	10
L	PERFORMING IN-SHOP MAINTENANCE OF AIRCRAFT PNEUDRAULIC COMPONENTS	15	11	6
M	MAINTAINING SHOP AND AEROSPACE GROUND EQUIPMENT (AGE)	4	4	2
N	CROSS UTILIZATION TRAINING (CUT)	9	7	5

^{*} Columns may not add up to 100 percent due to rounding - Indicates less than 1 percent

TABLE 11

REPRESENTATIVE TASKS PERFORMED BY 42334 PERSONNEL

TASKS		PERCENT MEMBERS PERFORMIN (N=178)
E183	MAKE ENTRIES ON AFTO FORMS 349 (MAINTENANCE DATA COLLECTION	77
P107	RECORD)	//
E187		77
11207	AND WORK DOCUMENT) PERFORM OPERATIONAL CHECKS OF BRAKE SYSTEMS	7 <i>1</i> 76
H307		70
E184	TAG)	75
VE LE	REMOVE OR INSTALL ENGINE DRIVEN HYDRAULIC PUMPS	75 75
	BLEED OR SERVICE BRAKE SYSTEMS	73 74
N/U2	REMOVE OR INSTALL HYDRAULIC FILTER ASSEMBLIES OR ELEMENTS	74 70
1010 VE74	REMOVE OR INSTALL PREUDRAULIC HOSE ASSEMBLIES OR ELEMENTS	68
K543	REMOVE OR INSTALL COMPONENTS OF LANDING GEAR RETRACTION	
K343	OR EXTENSION SYSTEMS	67
WEE 7	REMOVE OR INSTALL COMPONENTS OF RUDDER SYSTEMS	67
N33/ W670	CIPAN TOOLS	66
MO/9	DEMONE UD INCAVII CUMDUMENAG UE VIDCOVEA DOVAE CACAEMO	65
N323	MEDICAL OR INDIALL CONFORMID OF MACE LINES CHEEDING CACALING	62
N722	CLEAN TOOLS REMOVE OR INSTALL COMPONENTS OF RODDER SISTEMS PERFORM OPERATIONAL CHECKS OF NOSE WHEEL STEERING SYSTEMS SERVICE AIRCRAFT HYDRAULIC SYSTEMS	61
N/23	REMOVE OR INSTALL COMPONENTS OF NOSE WHEEL STEERING	01
K340	SYSTEMS	61
¥577	DEMOVE OD INCTAIL TIDE ACCEMBLIES	50
M3//	DEDEVON UDEDIATIONAL CRECKS UP EMEDGENCA RANDVILLES CASARMS	59
M2 30	DEMONE OF INCAVII COMPONENAC OF EMPERGENCI HIDWARFIC SISIENS	58
N333	PERFORM OPERATIONAL CHECKS OF EMERGENCY HYDRAULIC SYSTEMS REMOVE OR INSTALL COMPONENTS OF HYDRAULIC POWER SYSTEMS PERFORM OPERATIONAL CHECKS OF HYDRAULIC POWER SYSTEMS	58
N709	UDEDATE VEDUCIACE COUNTY FULLDMENT (VCE) CITCH VC DUTED	30
N/U9	OPERATE AEROSPACE GROUND EQUIPMENT (AGE), SUCH AS POWER UNITS, HEATERS, OR LIGHT CARTS	58
W257	PERFORM OPERATIONAL CHECKS OF RUDDER SYSTEMS	58
N221	REMOVE OR INSTALL COMPONENTS OF LANDING GEAR DOOR SYSTEMS	57
K572	REPACK SHOCK STRUTS ON AIRCRAFT	57
	PERFORM OPERATIONAL CHECKS OF AUXILIARY HYDRAULIC SYSTEMS	
N703		
	EDOM ATDODATE	56
T 66%	EADDICATE MEDIUM DEECCHEE DIDDED HOCE ACCEMBITE	56
T661	TADDICATE HEDIUM TRESSURE RUDDER HOSE ASSEMBLIES	55
TOOL	ACCOMPTE OF DICACCEMPTE BRAVE ACCOMPTITES	54
T221	MADRUDA VALDALIVATI CARCAS VE SALEM DEVAR SASLEMS	54
N207	FABRICATE MEDIUM PRESSURE RUBBER HOSE ASSEMBLIES FABRICATE HIGH PRESSURE RUBBER HOSE ASSEMBLIES ASSEMBLE OR DISASSEMBLE BRAKE ASSEMBLIES PERFORM OPERATIONAL CHECKS OF SPEED BRAKE SYSTEMS SERVICE AIRCRAFT ACCUMULATORS	54 54
	REMOVE OR INSTALL COMPONENTS OF AUXILIARY HYDRAULIC SYSTEMS	• •
	REMOVE OR INSTALL COMPONENTS OF SHOCK STRUTS	54 53
-	INVENTORY COMPOSITE TOOL KITS (CTK)	53 53

BUSHING PROBLEMS

TABLE 12

REPRESENTATIVE TASKS PERFORMED BY 42354 PERSONNEL

<u>TASKS</u>		PERCENT MEMBERS PERFORMING (N=1,085)
Н307	PERFORM OPERATIONAL CHECKS OF BRAKE SYSTEMS REMOVE OR INSTALL ENGINE DRIVEN HYDRAULIC PUMPS BLEED OR SERVICE PRAKE SYSTEMS	83
K565	REMOVE OR INSTALL ENGINE DRIVEN HYDRAULIC PUMPS	79
N702	BLEED OR SERVICE BRAKE SYSTEMS	79
K543	REMOVE OR INSTALL COMPONENTS OF LANDING GEAR RETRACTION OR EXTENSION SYSTEMS	78
	MAKE ENTRIES ON AFTO FORMS 781A (MAINTENANCE DISCREPANCY AND WORK DOCUMENT)	78
H341	PERFORM OPERATIONAL CHECKS OF NOSE WHEEL STEERING SYSTEMS	77
K575	REMOVE OR INSTALL HYDRAULIC FILTER ASSEMBLIES OR ELEMENTS	76
K546	REMOVE OR INSTALL COMPONENTS OF NOSE WHEEL STEERING SYSTEMS	74
K557	REMOVE OR INSTALL COMPONENTS OF RUDDER SYSTEMS	73
K523	REMOVE OR INSTALL COMPONENTS OF NOSE WHEEL STEERING SYSTEMS REMOVE OR INSTALL COMPONENTS OF RUDDER SYSTEMS REMOVE OR INSTALL COMPONENTS OF AIRCRAFT BRAKE SYSTEMS REMOVE OR INSTALL PNEUDRAULIC HOSE ASSEMBLIES PERFORM OPERATIONAL CHECKS OF RUDDER SYSTEMS	73
K576	REMOVE OR INSTALL PNEUDRAULIC HOSE ASSEMBLIES	72
H357	PERFORM OPERATIONAL CHECKS OF RUDDER SYSTEMS	70
E184	PERFORM OPERATIONAL CHECKS OF RUDDER SYSTEMS MAKE ENTRIES ON AFTO FORMS 350 (REPARABLE ITEM PROCESSING	
	IAG)	70
	SERVICE AIRCRAFT HYDRAULIC SYSTEMS	70
K578	REPACK SHOCK STRUTS ON AIRCRAFT	70
J470		
	SYSTEMS	70
H331		69
	REMOVE OR INSTALL TUBE ASSEMBLIES	69
K586	SERVICE AIRCRAFT ACCUMULATORS	69
E183		
	RECORD)	69
N709		
	UNITS, HEATERS, OR LIGHT CARTS	68
K539	REMOVE OR INSTALL COMPONENTS OF HYDRAULIC POWER SYSTEMS	68
K558	REMOVE OR INSTALL COMPONENTS OF SHOCK STRUTS INSPECT AIRCRAFT INSTALLED BRAKE SYSTEM COMPONENTS PERFORM OPERATIONAL CHECKS OF AUXILIARY HYDRAULIC SYSTEMS	67
G237	INSPECT AIRCRAFT INSTALLED BRAKE SYSTEM COMPONENTS	67
		65
N703	CONNECT OR DISCONNECT PORTABLE HYDRAULIC TEST STANDS TO OR	
	FROM AIRCRAFT	65
	PERFORM OPERATIONAL CHECKS OF EMERGENCY HYDRAULIC SYSTEMS	65
J459		
	HYDRAULIC SCHEMATICS	65
G257	INSPECT AIRCRAFT INSTALLED LANDING GEAR EXTENSION OR	
	RETRACTION COMPONENTS	65

TABLE 13

TASKS WHICH BEST DIFFERENTIATE BETWEEN
3- AND 5-SKILL LEVEL PERSONNEL
(PERCENT MEMBERS PERFORMING)

TASKS		DAFSC 42334 (N=178)	DAFSC 42354 (N=1,085)	DIFFERENCE
		<u></u>		
B 59	SUPERVISE APPRENTICE AIRCRAFT PNEUDRAULIC	_	4	
7/50	SYSTEMS MECHANIC (AFSC 42334) PERSONNEL	8	41	-33
J459		4-	2 m	••
7/70	USING HYDRAULIC SCHEMATICS	35	65	-30
J470				
~/	STEERING HYDRAULIC SYSTEMS	41	70	-29
J491		31	59	-28
J463				
~//~	EXTENSION OR RETRACTION HYDRAULIC SYSTEMS	38	65	-27
	ISOLATE MALFUNCTIONS WITHIN BRAKE SYSTEMS	43	69	-26
J496	ISOLATE MALFUNCTIONS WITHIN WING FLAP			
	SYSTEMS	24	50	-26
D111		7	33	-26
J457		4.		
	SYSTEMS	39	64	-25
G253	INSPECT AIRCRAFT INSTALLED HYDRAULIC POWER			
	SYSTEMS	37	59	-22
J456	ISOLATE MALFUNCTIONS WITHIN HYDRAULIC			
	INDICATING SYSTEMS	28	50	-22
E170				
	DISPATCH CONTROL LOG)	17	39	-22
J458				
	USING ELECTRICAL SCHEMATICS	17	39	-22
•	•	•	•	•
•	•	•	•	•
	•	•	•	•

TABLE 14 REPRESENTATIVE TASKS PERFORMED BY 42374 PERSONNEL

TASKS		PERCENT MEMBERS PERFORMING (N=467)
C66	CLEAR RED X CONDITIONS	85
C101	WRITE APRS	84
E187	MAKE ENTRIES ON AFTO FORMS 781A (MAINTENANCE DISCREPANCY	8 2
C227	THE BEAR INCOMENT!	77
G257	CLEAR RED X CONDITIONS WRITE APRS MAKE ENTRIES ON AFTO FORMS 781A (MAINTENANCE DISCREPANCY AND WORK DOCUMENT) INSPECT AIRCRAFT INSTALLED BRAKE SYSTEM COMPONENTS INSPECT AIRCRAFT INSTALLED LANDING GEAR EXTENSION OR RETRACTION COMPONENTS MAKE ENTRIES ON AFTO FORMS 349 (MAINTENANCE DATA COLLECTION RECORD) MAKE ENTRIES ON AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG) SUPERVISE AIRCRAFT PNEUDRAULIC SYSTEMS MECHANIC (AFSC 42354) PERSONNEL INSPECT PERSONNEL FOR COMPLIANCE WITH MILITARY STANDARDS	7/
	RETRACTION COMPONENTS	76
E183	MAKE ENTRIES ON AFTO FORMS 349 (MAINTENANCE DATA	
	COLLECTION RECORD)	75
E184	MAKE ENTRIES ON AFTO FORMS 350 (REPARABLE ITEM	
	PROCESSING TAG)	75
B57	SUPERVISE AIRCRAFT PNEUDRAULIC SYSTEMS MECHANIC	
	(AFSC 42354) PERSONNEL	75
C94	INSPECT PERSONNEL FOR COMPLIANCE WITH MILITARY STANDARDS	74
	PERFORM OPERATIONAL CHECKS OF BRAKE SYSTEMS	73
G261		73
G262		
0202	COMPONENTS	· 73
G253		72
G280	INSPECT AIRCRAFT INSTALLED SHOCK STRUTS	72
B38	AAURANA BARAAANA AM BARAAANA AB LIVU WALAA TARAAANA MARAAANAA	7.1
A4	COUNSEL PERSONNEL ON PERSONAL OR MILITARY RELATED MATTERS COORDINATE WITH MAINTENANCE CONTROL ON MAINTENANCE PROBLEMS PERFORM OPERATIONAL CHECKS OF HYDRAULIC POWER SYSTEMS COORDINATE WITH OTHER AIRCRAFT MAINTENANCE SHOPS ON MAINTENANCE PROBLEMS ISOLATE MALFUNCTIONS WITHIN BRAKE SYSTEMS	69
H331	COOKDINGS ALLU UNIGIENANCE COMINOT ON UNITHERWISE LYCOTORIS	60
	COORDINATE LITTLE OFFICE ATTORNATION WATERWAYNOR CHORGON	09
A5	COURDINATE WITH UTHER AIRCRAFT MAINTENANCE SHOPS ON	60
7//0	MAINTENANCE PROBLEMS	69
	ISOLATE MALFUNCTIONS WITHIN BRAKE SYSTEMS	69
K543	REMOVE OR INSTALL COMPONENTS OF LANDING GEAR RETRACTION	
	OR EXTENSION SYSTEMS	67
J463		
	RETRACTION HYDRAULIC SYSTEMS	67
H341	PERFORM OPERATIONAL CHECKS OF NOSE WHEEL STEERING SYSTEMS	67
N705	INVENTADY CAMPASITE TAAI KITS (CTK)	66
J457	ISOLATE MALFUNCTIONS WITHIN HYDRAULIC POWER SYSTEMS	66
J459	ISOLATE MALFUNCTIONS WITHIN HYDRAULIC SYSTEMS USING	
	HYDRAULIC SCHEMATICS	66
J470	ISOLATE MALFUNCTIONS WITHIN NOSE WHEEL STEERING HYDRAULIC	
• • • • • • • • • • • • • • • • • • • •	SYSTEMS	66
G256	INSPECT AIRCRAFT INSTALLED LANDING GEAR DOOR ACTUATING	
J-70	COMPONENTS	66
	AA100 A410011 & A	•
•	•	•
•	•	

TABLE 15

TASKS WHICH BEST DIFFERENTIATE BETWEEN
5- AND 7-SKILL LEVEL PERSONNEL

TASKS		DAFSC 42354 (N=1,085)		DIFFERENCE
K536				
	OR STABILIZER SYSTEMS	52	28	+24
H323	PERFORM OPERATIONAL CHECKS OF HORIZONTAL TAIL OR STABILIZER SYSTEMS	54	34	+20
J451		34	J 4	120
3731	STABILIZER SYSTEMS	42	26	+16
L591	ASSEMBLE OR DISASSEMBLE BRAKE ASSEMBLIES	54	38	+16
K557	REMOVE OR INSTALL COMPONENTS OF RUDDER SYSTEMS	73	57	+16
•	•	•	•	•
•	•	•	•	•
	. OFFIR DED V CONDITIONS	15	85	-70
C66	CLEAR RED X CONDITIONS WRITE APRS	15 24	84	-60
C101	INSPECT PERSONNEL FOR COMPLIANCE WITH	44	04	-00
C74	MILITARY STANDARDS	18	71	- 53
B38	COUNSEL PERSONNEL ON PERSONAL OR MILITARY-	10	, .	33
1,50	RELATED MATTERS	18	71	-53
B57	SUPERVISE AIRCRAFT PNEUDRAULIC SYSTEMS	- -	-	1
	MECHANIC (AFSC 42354) PERSONNEL	27	75	-48
C103				
_	DECORATIONS	8	50	-42
A4	COORDINATE WITH MAINTENANCE CONTROL ON			4 -
	MAINTENANCE PROBLEMS	28	69	-41
C92	INDORSE AIRMAN PERFORMANCE REPORTS (APR)	11	51	-40
A33	SCHEDULE WORK ASSIGNMENTS AND PRIORITIES	15	54	-39
B54	INTERPRET POLICIES, DIRECTIVES, OR PROCEDURES	10	51	- 20
B58	FOR SUBORDINATES SUPERVISE AIRCRAFT PNEUDRAULIC SYSTEMS	12	21	-39
محظ	TECHNICIAN (AFSC 42374) PERSONNEL	4	43	-39

ANALYSIS OF AFR 39-1 SPECIALTY DESCRIPTIONS

Survey data were compared to the AFR 39-1 Specialty Descriptions for the 423X4 career area. These descriptions are intended to give a broad overview of the duties and tasks performed in each skill level of a specialty.

The specialty descriptions appear to reflect the 3-, 5-, and 7-skill level jobs within the Pneudraulic career field. Three- and 5-skill level personnel basically are accomplishing technical tasks, while the 7-skill level assumes a more advisory role in the performance of technical skills.

ANALYSIS OF EXPERIENCE (TAFMS) GROUPS

Reviewing utilization patterns for survey respondents at different Total Active Federal Military Service (TAFMS) points gives an appreciation of how jobs and responsibilities change over time. As is typical in most career ladders, as time in service (and experience) increase, there is a corresponding increase in performance of duties involving supervisory, managerial, and administrative tasks. As Table 16 shows, the changes in relative percentage of time spent on each of the major duty areas occur very gradually as experience level increases. As illustrated in Figure 3, with additional months accumulated in TAFMS, 423X4 airmen show a steady trend toward assumption of supervisory and administrative functions. First-enlistment personnel (1-48 months TAFMS) personnel spend the vast majority of their time on technical tasks (Duties G-N). Personnel in the second through fourth enlistment groups still spend the majority of their time on technical tasks, but also show a definite transition toward the performance of supervisory and administrative tasks. Personnel serving their fifth enlistment or beyond spend the majority of their time performing managerial duties.

First-Enlistment Personnel

First-enlistment personnel (1-48 months TAFMS) spend the vast majority of their time on duties involving maintenance of aircraft pneudraulic systems. They remove, install, and service aircraft pneudraulic systems and components. Incumbents perform operational checks and inspect pneudraulic systems as well as performing in-shop maintenance of components (see Table 16). First-term personnel perform an average of 131 tasks. Typical tasks include performing operational checks on brake systems, bleed or service brake systems, and remove or install engine driven hydraulic pumps. Representative tasks are listed in Table 17. Figure 4 displays the distribution of first-term members across the career ladder jobs. The largest percentage of airmen in their first enlistment were found in the Flightline Pneudraulic Personnel cluster, which represents the technical "mainstream" of the career field.

Equipment

Table 18 contains a list of equipment used or operated by 10 percent or more of incumbents in their first enlistment. The equipment is listed in descending order of the percent of first-term (1-48 months TAFMS) personnel using each item. There were 49 items included in the background equipment list. Of these, 16 pieces of equipment were used by at least 30 percent of all first-term personnel. Consultation with technical school personnel involved with the basic course indicated that all but two of these items were covered in the basic course. Pressure and leak testers and pneudraulic test stands were the items not employed. The use of these items might be reviewed for possible inclusion in the ABR course.

Respondents were also requested to indicate aircraft on which they perform maintenance. Table 19 presents a listing of representative aircraft (5 percent or more) on which first-term airmen perform maintenance. The largest percentage of personnel work on the KC-135A (21 percent), C-141B (18 percent), C-5A (13 percent), and T-38A (12 percent). These relatively small percentages indicate there is no "common" aircraft system maintained by a majority of first-enlistment personnel. While personnel assigned to SAC attend a special course on in-flight refueling, training on other specific aircraft becomes the responsibility of the receiving organization. The diversity of aircraft makes follow-on training critical.

Job Satisfaction

Table 20 presents data reflecting the job interest, perceived utilization of talents and training, and reenlistment intentions of selected TAFMS groups and a comparative sample of all Mission Equipment Maintenance career ladders surveyed in 1983. Overall, 423X4 personnel show good satisfaction across all TAFMS groups. Eighty percent of first-enlistment personnel found their job interesting, 88 percent indicated their talents were well utilized, and 90 percent felt their training was being utilized.

Reenlistment intent (62 percent yes or probably yes) for first-term personnel is significantly higher than for the comparative sample. All TAFMS groups show a higher reenlistment intent than the comparative sample. (Similar trends have been noted in recent studies).

Overall, Pneudraulic Systems Personnel indicate substantial job interest and utilization of training and talents.

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TABLE 16

PERCENT TIME SPENT PERFORMING DUTIES BY TAFMS GROUPS (RELATIVE PERCENT TIME)*

ENLISTMENT GROUPS (MONTHS TAFMS)

			CHOINT	(mi re		
DUTIES	1-48 (N=866)	(N=384)	97-144 (N=216)	145-192 (N=151)	193-240 (N=85)	241+ (N=26)
A ORGANIZING AND FLANNING	, 4	ന	9	6	12	16
B DIRECTING AND IMPLEMENTING	,	m	ν		10	13
C INSPECTING AND EVALUATING	-	7	~	∞	12	91
D TRAINING	-	ന	\$	9	۲~	O,
E PERFORMING ADMINISTRATIVE FUNCTIONS	9	∞	œ	10	11	10
F PERFORMING SUPPLY FUNCTIONS	m	4	4	m	9	.)
G INSPECTING AIRCRAFT INSTALLED PNEUDRAULIC SYS	STEMS	11	13	11	10	<u>ي</u>
H PERFURMING OPERATIONAL CHECKS OF AIRCRAFF			1	i	!	•
PNEUDRAULIC SYSTEMS	15	13	11	10	7	~
I ADJUSTING PNEUDRAULIC SYSTEMS AND COMPONENTS	9	5	4	4	7	. 7
J ISCLATE MALFUNCTIONS WITHIN AIRCRAFT PNEUDRAU	ULIC				I)
SYSTEMS	6	6	7	۲.	7	7
K REMOVING, INSTALLING, AND SERVICING AIRCRAFT		•	•		•	•
PNEUDRAULIC SYSTEMS AND COMPONENTS	. 19	16	13	2	\c	ır
L PERFORMING IN-SHOP MAINTENANCE OF AIRCRAFT		•	•) f	•	•
PNEUDRAULIC COMPONENTS	en e i	10	۲-	•9	7	·
M MAINTAINING SHOP AND AEROSPACE GROUND EQUITME	ENT (AGE) 4	7	· (**)	i tr	. ~	;
N CROSS UTILIZATION TRAINING (CUT)	. ⊗	· .o	.	n sp	ım	دما ه
					•	•

^{*} Columns may not add up to 100 percent due to rounding

TABLE 17

REPRESENTATIVE TASKS PERFORMED BY 423X4 FIRST-ENLISTMENT PERSONNEL (1-48 MONTHS TAFMS)

TASKS		PERCENT MEMBERS PERFORMING (N=866)
H307	PERFORM OPERATIONAL CHECKS OF BRAKE SYSTEMS	83
		81
K565	REMOVE OR INSTALL ENGINE DRIVEN HYDRAULIC PUMPS	80
K543	REMOVE OR INSTALL COMPONENTS OF LANDING GEAR RETRACTION	70
	OR EXTENSION SYSTEMS	78
E187	MAKE ENTRIES ON AFTO FORMS 781A (MAINTENANCE DISCREPANCY AND WORK DOCUMENT)	78
¥5.75	REMOVE OR INSTALL HYDRAULIC FILTER ASSEMBLIES OR ELEMENTS	76
H341	PERFORM OPERATIONAL CHECKS OF NOSE WHEEL STEERING SYSTEMS	76
K557	REMOVE OR INSTALL COMPONENTS OF RUDDER SYSTEMS	75
	REMOVE OR INSTALL COMPONENTS OF AIRCRAFT BRAKE SYSTEMS	74
	SERVICE AIRCRAFT HYDRAULIC SYSTEMS	72
N723	REMOVE OR INSTALL COMPONENTS OF NOSE WHEEL STEERING SYSTEMS	
	WARE STREET, OF A PRODUCT OF A CREATER THEY DESCRIBE	
2104	TAC)	71
K576	REMOVE OR INSTALL PARITABALLIC HOSE ASSEMBLIES	71
H357	DEDECOM ODEDATIONAL CHECKS OF DIMORE SYSTEMS	71
F183	MAKE ENTRIES ON AFTO FORMS 3/0 (MAINTENANCE DATA	, ,
EIOJ	TAG) REMOVE OR INSTALL PNEUDRAULIC HOSE ASSEMBLIES PERFORM OPERATIONAL CHECKS OF RUDDER SYSTEMS MAKE ENTRIES ON AFTO FORMS 349 (MAINTENANCE DATA COLLECTION RECORD) REPACK SHOCK STRUTS ON AIRCRAFT	70
K578	REPACK SHOCK STRITS ON AIRCRAFT	69
K586	SERVICE AIRCRAFT ACCUMULATORS	69
	REMOVE OR INSTALL TUBE ASSEMBLIES	68
H315	PERFORM OPERATIONAL CHECKS OF EMERGENCY HYDRAULIC SYSTEMS	
	OPERATE AEROSPACE GROUND EQUIPMENT (AGE), SUCH AS POWER	
	UNITS, HEATERS, OR LIGHT CARTS	68
H331	PERFORM OPERATIONAL CHECKS OF HYDRAULIC POWER SYSTEMS	68
K539	REMOVE OR INSTALL COMPONENTS OF HYDRAULIC POWER SYSTEMS	66
K558	REMOVE OR INSTALL COMPONENTS OF SHOCK STRUTS	66
J440	ISOLATE MALFUNCTIONS WITHIN BRAKE SYSTEMS	66
J470	ISOLATE MALFUNCTIONS WITHIN NOSE WHEEL STEERING HYDRAULIC	
	SYSTEMS	65
	PERFORM OPERATIONAL CHECKS OF AUXILIARY HYDRAULIC SYSTEMS	65
N703		15
	OR FROM AIRCRAFT	65
н332	PERFORM OPERATIONAL CHECKS OF HYDRAULIC PRESSURE INDICATING	<i>e 1</i> .
0007	SYSTEMS THORNOO A FRONT THORNTON DRAW GROWING COMPONENTS	64 63
	INSPECT AIRCRAFT INSTALLED BRAKE SYSTEMS COMPONENTS	62
	PERFORM OPERATIONAL CHECKS OF AILERON SYSTEMS	62
N705	INVENTORY COMPOSITE TOOL KITS (CTK)	04

TABLE 18

EQUIPMENT USED BY 10 PERCENT OR MORE FIRST-TERM PERSONNEL (N=866)

EQUIPMENT	PERCENT MEMBERS PERFORMING
TORQUE WRENCHES	93
SERVICING CARTS	82
HYDRAULIC GROUND SERVICING CARTS	80
SPANNER WRENCHES	79
HOSE CUT OFF MACHINES	68
HOSE ASSEMBLY MACHINES	67
HOSE SKIVING MACHINES	67
PORTABLE HYDRAULIC TEST STANDS	67
SHOP HYDRAULIC TEST STANDS	65
HYDRAULIC HOSE TEST UNITS	58
MULTIMETERS	44
AIR NITROGEN COMPRESSORS	39
DEGREASERS	39
MICROMETERS	39
*PRESSURE AND LEAK TESTERS	34
*PNEUMATIC TEST STANDS	34
BRAKE SPIN RIVETING MACHINES	29
WING JACKS	28
AXLE JACKS	25
CABLE TENSIOMETERS	25
GENERATOR SETS	23
SPRING COMPRESSORS	23
SPIN RIVETER MACHINES	23
FORCE GAUGES	22
STOP WATCHES	18
DIAL INDICATORS	14
PROTRACTORS	14
COMPRESSION RIVETER MACHINES	14
FLUSHING MACHINES	13
ULTRASONIC LEAK DETECTORS	11
NITROGEN RECHARGERS	10
ULTRASONIC CLEANERS	10

^{*} Not taught in technical school

TABLE 19
AIRCRAFT MAINTAINED BY 5 PERCENT OF FIRST-ENLISTMENT PERSONNEL*

TYPE AIRCRAFT	PERCENT
KC-135A	21
C-141B	18
C-5A	13
T-38A	12
C-130E	11
B-52G	10
F-4E	10
F-16A	10
С-130Н	9
F-16B	7
T-37B	7
A-10A	6
F-15C	6
RF-4C	6
B-52H	5
F-15A	5
F-15B	5
F-15D	5
T-39A	5

^{*} Respondents may have responded to more than one type of aircraft.

TABLE 20

COMPARISON OF JOB SATISFACTION INDICATORS BY TAFMS GROUPS (PERCENT MEMBERS RESPONDING)*

	1-48 M	1-48 MONTHS TAFMS	₩ 96-67	49-96 MONTHS TAFMS	97+ MON	97+ MONTHS TAFMS
	423X4	COMPARATIVE SAMPLE**	423X4	COMPARATIVE SAMPLE**	423X4	COMPARATIVE SAMPLE**
EXPRESSED JOB INTEREST:	(N=800)	(N=3,200)	(N=384)	(/hp (1=N)	(N=4/8)	(N=7, 200)
DULL	9	10	9	12	ĿԴ	7
SO-SO	12	19	15	15	14	12
INTERESTING	80	0/	8/	73	8/	6/
PERCEIVED UTILIZATION OF TALENTS:						
LITTLE OR NOT AT ALL	11	20	15	19	13	15
FAIRLY WELL TO PERFECTLY	88	79	84	81	86	85
PERCEIVED UTILIZATION OF TRAINING:						
LITTLE OR NOT AT ALL	6	50	12	22	14	19
FAIRLY WELL TO PERFECTLY	06	80	88	78	85	81
REENLISTMENT INTENTIONS:						
PLAN TO RETIRE	- 7	1 \	⊷ \$	1 (13	19
YES OR PROBABLY YES	30 62	53 23	97	67 02	79	72

^{*} Columns may not add up to 100 percent due to no response or rounding

** Comparative sample includes Mission Equipment Maintenance career ladders surveyed in 1983, AFSCs

include 305X4, 324X0, 328X5, 423X1, 423X5, and 464X0

- Less than one percent

FIGURE 3

AVERAGE PERCENT TIME SPENT ON ADMINISTRATIVE
AND SUPERVISORY TASKS BY TAFMS GROUPS

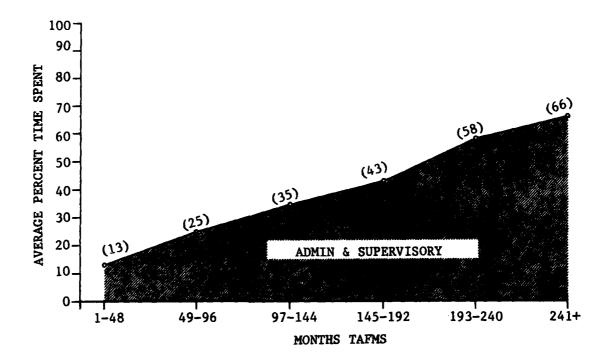
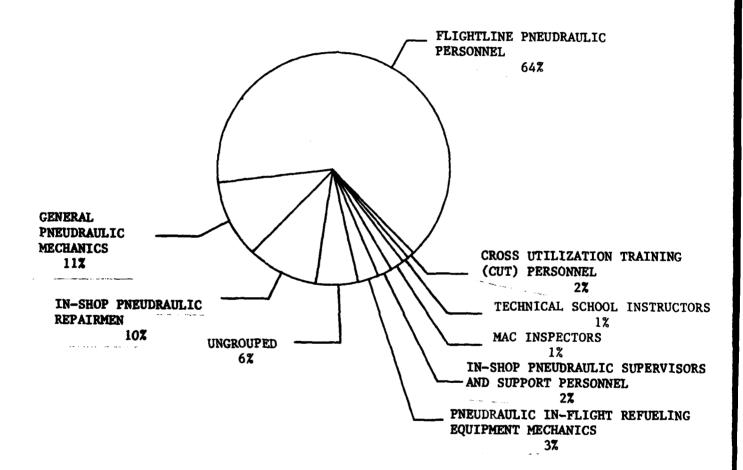


FIGURE 4

DISTRIBUTION OF 423X4 FIRST-ENLISTMENT PERSONNEL ACROSS CAREER LADDER JOBS (PERCENT MEMBERS RESPONDING)



SPECIALTY TRAINING

Sixty-five NCOs in the 423X4 career ladder rated items in the job inventory on the degree of emphasis that should be placed on each task for first-enlistment training. These ratings were processed to provide a rank-order listing of tasks from high degree of emphasis to no training required. The average rating was 2.50, with a standard deviation of 1.59, so tasks receiving a rating of 4.09 or above were considered high in training emphasis. (For a more complete description of these ratings, see the section on Task Factor Administration under SURVEY METHODOLOGY.)

The tasks performed by relatively high percentages of first-enlistment personnel generally received the highest training emphasis ratings. One hundred and twenty-three tasks were rated high in training emphasis (4.09 or above). Of those tasks, only 3 were performed by less than 30 percent of the 1-48 months group. Two of those tasks were rated slightly above average in task difficulty.

Table 21 lists the 25 tasks rated highest in training emphasis as examples to illustrate the types of tasks considered important for first-term training by senior technicians. Note that all of the top 25 tasks were performed by 50 percent or more of first-term personnel.

Six of the 25 tasks were not matched with the POI. These are:

K578 Repack shock struts on aircraft

L664 Fabricate medium pressure rubber hose assemblies

K546 Remove or install components of nose wheel steering systems

L662 Fabricate high pressure teflon hose assemblies

K558 Remove or install components of shock struts

K576 Remove or install pneudraulic hose assemblies

These tasks might be considered for resident course training. There were an additional 15 tasks rated high in training emphasis and performed by at least 50 percent of first-enlistment personnel not matched with the POI. These also should be evaluated by training personnel. A total of 63 tasks rated above average in training emphasis were not matched to the POI.

Tasks rated average (2.50 mean) were generally performed by less than 30 percent of the relevant members. Examples of such tasks are:

TASKS		TNG EMPH	PERCENT OF FIRST ENLISTMENT	TASK DIFF
K507	OVERHAUL AIR REFUELING DROGUE ASSEMBLIES	2.53	10	5.45
F212	MAINTAIN INSPECTION CARDS OR ITEMS REQUIRING PERIODIC INSPECTIONS	2.50	22	3.99
M675	RENCH CHECK HYDRAULIC MAINTENANCE STAND ACTUATORS	2.50	9	3.86

The tasks lowest in training emphasis related to nontechnical management requirements.

Overall, the tasks being performed by larger percentages of first-term personnel received the highest training ratings. Conversely, tasks performed by few in the 1-48 months group were rated low on training emphasis. Thus, the TE ratings make an excellent summary index with which to examine specialty training control documents.

TABLE 21 EXAMPLES OF TASKS RATED HIGH IN TRAINING EMPHASIS FOR 423X4 PERSONNEL

TASKS		TNG EMPH*	1ST ENL	TASK DIFF**
E187	MAKE ENTRIES ON AFTO FORMS 781A (MAINTENANCE DISCREPANCY AND WORK DOCUMENT)	7.27	78	3.26
E184	MAKE ENTRIES ON AFTO FORMS 350 (REPARABLE ITEM	1.21	, 0	3.20
E104	PROCESSING TAG)	6.77	71	3.19
J459	ISOLATE MALFUNCTIONS WITHIN HYDRAULIC SYSTEMS USING	0.,,	, -	0.12
0437	HYDRAULIC SCHEMATICS	6.62	60	6.21
E183	MAKE ENTRIES ON AFTO FORMS 349 (MAINTENANCE DATA			
	COLLECTION RECORD	6.48	70	3.29
Н307	PERFORM OPERATIONAL CHECKS OF BRAKE SYSTEMS	6.41	84	4.69
H565	REMOVE OR INSTALL ENGINE DRIVE HYDRAULIC PUMPS	6.34	80	5.03
L661	FABRICATE HIGH PRESSURE RUBBER HOSE ASSEMBLIES		60	4.24
***K578	REPACK SHOCK STRUTS ON AIRCRAFT	6.28	69	6.17
L665	FABRICATE MEDIUM PRESSURE TEFLON HOSE ASSEMBLIES	6.23	53	4.40
J440	ISOLATE MALFUNCTIONS WITHIN BRAKE SYSTEMS	6.20	66	5.63
***L664	FABRICATE MEDIUM PRESSURE RUBBER HOSE ASSEMBLIES	6.14	58	3.91
K543	REMOVE OR INSTALL COMPONENTS OF LANDING GEAR RETRACTION			
	OR EXTENSION SYSTEMS	6.12	78	5.35
Н341	PERFORM OPERATIONAL CHECKS OF NOSE WHEEL STEERING			
	SYSTEMS	6.11	76	4.77
J457	ISOLATE MALFUNCTIONS WITHIN HYDRAULIC POWER SYSTEMS	6.11	60	5.83
H331	PERFORM OPERATIONAL CHECKS OF HYDRAULIC POWER SYSTEMS	6.09	68	4.78
K523	REMOVE OR INSTALL COMPONENTS OF AIRCRAFT BRAKE SYSTEMS	6.05	74	4.76
K539	REMOVE OR INSTALL COMPONENTS OF HYDRAULIC POWER SYSTEMS	6.03	66	5.09
J463	ISOLATE MALFUNCTIONS WITHIN LANDING GEAR EXTENSION OR			
	RETRACTION HYDRAULIC SYSTEMS	5.84	60	6.06
G237	INSPECT AIRCRAFT INSTALLED BRAKE SYSTEM COMPONENTS	5.83	63	4.65
***K546				
	SYSTEMS	5.83		5.23
***L662		5.83	54	4.84
L591		5.80	55	5.21
***K558	REMOVE OR INSTALL COMPONENTS OF SHOCK STRUTS	5.77	66	6.02
H315	PERFORM OPERATIONAL CHECKS OF EMERGENCY HYDRAULIC			
	SYSTEMS	5.75		4.99
***K576	REMOVE OR INSTALL PNEUDRAULIC HOSE ASSEMBLIES	5.75	71	2.88

^{*} Training emphasis average = 2.50, with SD = 1.59
** Task difficulty average = 5.0, with SD = 1
*** Not matched with POI

Analysis of the Specialty Training Standard (STS)

A review of STS 423X4, dated October 1978, compared STS elements to survey data. STS paragraphs containing general information or subject-matter knowledge requirements were not evaluated.

The elements listed in the STS with tasks referenced to them generally were well supported in terms of being performed by a substantial percent of specialty incumbents. All but a few elements were performed by at least 10 percent of the respondents in their first-enlistment or at the 5- or 7-skill level. Areas which reflect low percent members performing (less than 10 percent for a coded level) include publications, supervision, training, selection of maintenance material, and aerospace ground equipment. Elements with matched tasks reflecting low performance are given in Table 22. STS elements without inventory tasks matched are presented in Table 23. These elements may not have been matched because the element was inappropriately coded as a performance item, rather than a knowledge item, or inventory tasks appropriate to that item were unclear or omitted. These areas should be reviewed to determine the validity of their inclusion in the STS.

A number of inventory tasks were not matched to STS elements. Table 24 provides a listing of 30 tasks performed by at least 30 percent of first-enlistment and 5-skill level incumbents. Several tasks not referenced have average or above average training emphasis ratings, and over 10 percent of the first-enlistment personnel performing them. Thus, the tasks should be included in the STS as line entries or should be covered by some existing STS element. If it is determined that there are no tasks in the inventory which can be matched to a valid performance element, or covered in FTD or OJT, it is requested that subject-matter specialists draft the necessary task statements and send them to USAFOMC for review and inclusion in the next task inventory constructed for this specialty.

TABLE 22

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STS PERFORMANCE ELEMENTS REFLECTING LOW PERCENT MEMBERS PERFORMING TASKS (LESS THAN 10 PERCENT FOR A CODED LEVEL)

				PERCENT MEMBERS PERFORMING	ERS PERF	ORMING
STS ELEMENTS	TASK	TNG	TASK DIFF**	FIRST- ENLISTMENT	DAFSC 42354	DAFSC 42374
5a(2)	PREPARE EQUIPMENT AUTHORIZATION LIST F216 PREPARE EQUIPMENT AUTHORIZATION LIST	.39	7.90	7	ო	9
5a(7)	ASSIGN MAINTENANCE AND REPAIR WORK B44 DIRECT MAINTENANCE OR UTILIZATION OF EQUIPMENT	1.88	4.92	'n	6	30
5a(10)	ANALYZE AND PREPARE MAINTENANCE AND INSPECTION REPORTS AND CHARTS					
	INSPECTION PR PECTION PROCE	1.33	5.29	9 5	8 9	31
	B39 DIRECT DEVELOPMENT OR MAINTENANCE OF STATUS ROARDS GRAPHS OR CHARTS	.53	4.76	က	2	16
	B35 COMPILE INFORMATION FOR REPORTS OR STAFF STUDIES	.42	5.87	m ·	4,	17
	~	.36	5.07	5 7	မှ က	15
5b (9)	RECOMMEND PERSONNEL FOR TRAINING D146 SELECT INDIVIDUALS FOR SPECIALIZED TRAINING	.30	4.47	7	4	16
13a	<u> </u>					
		2.09	6.33	7	7	7
	3475 ISOLATE MALFUNCTIONS WITHIN FITCH TRIM ELECTRICAL SYSTEMS	1.25	9.9	7	∞	9

TABLE 22 (CONTINUED)

STS PERFORMANCE ELEMENTS REFLECTING LOW PERCENT MEMBERS PERFORMING TASKS (LESS THAN 10 PERCENT FOR A CODED LEVEL)

				PERCENT MEMBERS PERFORMING	SERS PERF	ORMING
STS	TASK	TNG	TASK DIFF**	FIRST- ENLISTMENT	DAFSC 42354	DAFSC 42374
19E	BENCH CHECK COMPONENTS OF PNRUMATIC SYSTEMS					
	L649 BENCH CHECK PNEUMATIC ACTUATORS	3.16	4.36	11	11	œ
	L651 BENCH CHECK PNEUMATIC SELECTOR VALVES	2.91	4.85	7	ဆ	•
	1650 BENCH CHECK PNEUMATIC FILTER ASSEMBLIES	2.47	3.65	no	<u>.</u>	9
	INDICATING SYSTEMS PRINCE CHECK A TRUE AT B. C.	2.14	3.85	۲,	9.	ľΩ
		1.52	5.54	4	4	7
21b(2)(a)	OPERATE PNEUMATIC SERVICING CARTS M693 PERFORM OPERATOR MAINTENANCE ON COMPRESSORS	1.67	3.79	'n	S	•
21b(4)(a)	OPERATE HYDRAULIC JACKS M689 PERFORM IN-SHOP OPERATIONAL CHECKS ON HYDRAULIC JACKS	1.83	3.53	ស	Ŋ	۰.
21b(4)(b)	MAINTAIN HYDRAULIC JACK COMPONENTS M680 CLEAN, LUBRICATE, OR INSPECT HYDRAULIC JACKS M697 REMOVE OR REPLACE COMPONENTS OF HYDRAULIC JACKS	2.11	2.72	r- v	∞ ∨ 0	6 9
21b(5)(a)	OPERATE MAINTENANCE STANDS M692 PERFORM OPERATIONAL CHECKS ON HYDRAULICALLY POWERED MAINTENANCE STANDS	2.19	3.93	ي	6	7

^{*} Training emphasis average = 2.50 with a standard deviation = 1.59; high TE = 4.09 ** Task difficulty average = 5.00 with a standard deivation = 1.00; high TD = 6.00

TABLE 23

UNREFERENCED STS PERFORMANCE ELEMENTS (EXCLUDING SAFETY WHICH IS INHERENT IN ALL TASK PERFORMANCE)

•
LOCATE TECHNICAL ORDER NUMBERS AND TITLES IN INDEX TYPE TECHNICAL ORDERS
APPLY INSTRUCTIONS IN TIME COMPLIANCE TECHNICAL ORDERS
USE ABBREVIATED TECHNICAL ORDERS WHEN PERFORMING INSPECTIONS AND MAINTENANCE
USE STANDARD PUBLICATIONS, PROCEDURES, INSTRUCTIONS, AND INFORMATION PERTINENT TO MAINTENANCE
USE JOB GUIDE MANUALS
RECOMMEND POLICY CHANGES ON UTILIZATION OF PERSONNEL AND EQUIPMENT
INITIATE ACTION TO CORRECT SUBSTANDARD PERSONNEL PERFORMANCE
PREPARE JOB PROFICIENCY GUIDES
MOTIVATE TRAINERS AND TRAINEES
CAREER KNOWLEDGE UPGRADE TRAINING
JOB PROFICIENCY UPGRADE TRAINING
QUALIFICATION TRAINING
SELECT AND USE AIRCRAFT HARDWARE
SELECT AND USE CLEANING AGENTS
SELECT AND USE SEALING DEVICES
IDENTIFY COMPONENTS OF HOSE ASSEMBLY
CONNECT COMPONENTS BEING TESTED TO HYDRAULIC TEST STANDS
CONNECT AIRCRAFT OR COMPONENT TO PNEUMATIC SERVICING CARTS
OPERATE HYDRAULIC SERVICING CARTS
CONNECT AIRCRAFT TO HYDRAULIC SERVICING CARTS

				TASK DIFF**	4.14	4.88	3.14	6.07	5.59	5.37	5.55	3.59	1.68	2.79	5.65	3.21 4.97	3.77	5.88	2.78	3.45	4.57	5.58	1.14 4.66
			MEMBERS NG	DAFSC 42354 (N=1,085)	36	20	67	54	4 4	20	41	89	79	36	35	36 36	6 7	34	30	35	34	33	39 31
833333			PERCENT HE	FIRST- ENLIST (N=866)	34	87	45	52	£3 20 80	65	39	89	62	30	35	34	43	36	30	31	30	31	30 30
		rs Rming)		TNG	5.56	5.31	5.30	5.30	76.4 78.4	4.80	4.72	4.72	4.67	4.59	4.55	4.41	4.30	4.17	4.08	7.06	3.75	3.30	3.19
	TABLE 24	TASKS NOT REFERENCED TO STS (OVER 30 PERCENT HEMBERS PERFORMING)		TASKS		MAKE ENTRIES ON AFTO FOR	INSPECTION AND DELAYED DISCREPANCY DOCUMENT) 1407 ADJUST HYDRAHLIC COMPONENTS OF LANDING CRAFT	ADJUST HYDRAULIC COMPONENTS OF	ADJUST HYDRAULIC COMPONENTS OF PNEUDRA	1381 ADJUST COMPONENTS OF NOSE WHERE STEERING SYSTEMS	60	R LIGHT CARTS	MAKE ENTRIES ON AF FORMS 2412	ADJUST COMPONENTS OF WING	CLEAN OR LUBRICATE SHOP HYDRAU	ADJUST COMPONENTS OF SPEED BRAKE S	SERVICE AIRCRAFT PNEUMATIC SYST	1394 ADJUST HYDRAULIC COMPONENTS OF AILERON SYSTEMS E170 MAKE ENTRIES ON AF FORMS 2430 (SPECIALIST DISPATCH	CONTROL LOG) DEVIEW FOILTWENT FORMS	DEMOVE OD INCHAIT COMPONENTS	ADJUST	GROUND	K556 REMOVE OR INSTALL COMPONENTS OF ROTOR BRAKE SYSTEMS
7953 N.				FI	Ä	í Þá	71	Ĭ	5		N	N	2 6	iΫ	Ĭ	ï		E	707	, <u>1</u>	17	Z	KS
	270					222	el l	7.		ise.	in its									c).		ž.	

TABLE 24 (CONTINUED)

TASKS NOT REFERENCED TO STS (OVER 30 PERCENT MEMBERS PERFORMING)

			FIRST-	DAFSC	
		ING	ENLIST	42354	TASK
TASKS		EMPH*	(N=866)	(N=1,085)	DIFF*
1377	1377 ADJUST COMPONENTS OF HORIZONTAL TAIL OR STABILIZER				
	SYSTEMS	2.97	37	34	5.81
H353	PERFORM OPERATIONAL CHECKS OF ROTOR BRAKE SYSTEMS	2.91	34	36	4.51
F214	PAINT FACILITIES OR EQUIPMENT	2.64	41	42	2.07
N706	JACK OR LEVEL AIRCRAFT	2.11	39	38	4.95
107N	LAUNCH OR RECOVER AIRCRAFT	2.08	77	77	4.59
117N	POSITION OR REMOVE AIRCRAFT CHOCKS OR GROUND SAFETY				
	PINS	1.86	38	36	1.93
N716	POSITION NONPOWERED OR POWERED AGE TO AIRCRAFT	1.80	41	41	2.28
N729	WALK WINGS OR TAILS DURING AIRCRAFT TOWING OPERATIONS	1.37	37	35	1.03

* Training emphasis average = 2.50 with a standard deviation = 1.59; high TE = 4.09 ** Task difficulty average = 5.00 with a standard deviation = 1.00; high TD = 6.00

Plan of Instruction (POI)

Based on previously mentioned assistance from technical school subject-matter specialists in matching inventory tasks to the POI, a computer product was generated displaying the results of the matching process. Information furnished on the computer printout includes training emphasis (TE) and task difficulty (TD), as well as percent members performing data for first-job (1-24 months TAFMS) and first-enlistment (1-48 months TAFMS) personnel.

The percent members performing the inventory tasks generally support the technical portion of the POI. There were only four POI blocks which reflected low performance by first-term personnel (see Table 25). Tasks referenced to these blocks concerned material deficiency reports, researching technical orders, making entry on technical order system publication improvement report and reply, and performing operational checks of hydraulic test equipment. These tasks had slightly higher than average TE ratings, which indicates some structured training, i.e. OJT, may be appropriate.

There were several POI blocks not matched with inventory tasks. While these performance objectives generally were broader than the job inventory tasks, they still are in need of review. These blocks covered such areas as: electrical principles and circuits (use of multimeter and series circuit trainer), troubleshooting the nose wheel steering system, operating hydraulic test stand, operating the hydraulic or pneumatic servicing carts, and servicing trainer reservoir.

Seventy-eight inventory tasks performed by 30 percent or more first-enlistment personnel, many having high training emphasis, were not referenced to any portion of the POI. All of these tasks had average or above training emphasis ratings. In addition, 19 of these tasks were performed by more than 50 percent of the target group.

Since the career field utilizes many different systems which are aircraft specific, the data was examined by first-term MAJCOM groups, as well as the total sample. It was found that, generally, the unmatched tasks performed by at least 50 percent of the total first-enlistment career field population, were performed across all commands. Thus, they are indicative of representative tasks which could be appropriate in a formal course setting. The items performed by 30 to 49 percent show more variations within commands. For example, tasks involving aircraft installed elevator systems are performed predominantly by personnel assigned to MAC. Aircraft refueling tasks are performed by SAC incumbents who attend a special follow-on course. TAC and ATC personnel adjust components of horizontal tail or stabilizer systems.

The unmatched tasks should be reviewed by training managers to determine if they should be added to resident training or follow-on training (FTD, OJT, etc).

TABLE 25

POI BLOCKS REFLECTING LOW PERCENT OF FIRST-ENLISTMENT PERFORMING TASKS (LESS THAN 30 PERCENT)

					PERCENT MEMBERS PERFORMING	ÆMBERS VG
POI REFERENCE BLOCK	TASKS		TRAINING EMPHASIS*	TASK DIFFICULTY**	FIRST- JOB (N=393)	FIRST- ENLISTMENT (N=866)
19E	E152	E152 COMPLETE MATERIEL DEFICIENCY REPORTS	3.45	78.7	6	6
1110	E200	RESEARCH TECHNICAL ORDERS TO IDENTIFY COMPONENTS OR ITEMS OF EQUIPMENT	3.73	78.7	22	22
1116	E177	MAKE ENTRIES ON AFTO FORMS 22 (TECHNICAL ORDER SYSTEM PUBLICATION IMPROVEMENT REPORT AND REPLY)	3.89	4.50	~	7
III7D	W690	M690 PERFORM OPERATIONAL CHECKS OF HYDRAULIC TEST EQUIPMENT	3.44	4.32	30	22

^{*} Training emphasis average = 2.50 with a standard deviation = 1.59; high TE = 4.09 ** Task difficulty average = 5.00 with a standard deviation = 1.00; high TD = 6.00

TABLE 26

TASKS NOT REFERENCED TO POI BLOCKS (30 PERCENT OR MORE FIRST-ENLISTMENT PERFORMING)

		TRAINING	TASK	FIRST-	FIRST-
TASKS	TASKS NOT REFERENCED	EMPHAS IS*	DIFFICULTY**	(N=393)	(N=866)
K578	REPACK SHOCK STRUTS ON AIRCRAFT	6.28	6.17	99	69
T997	FABRICATE MEDIUM PRESSURE RUBBER HOSE ASSEMBLIES	6.14	3.91	57	58
K546	REHOVE OR INSTALL COMPONENTS OF NOSE WHEEL STEERING SYSTEMS	5.83	5.23	89	72
Te62	FABRICATE HIGH PRESSURE TEFLON HOSE ASSEMBLIES	5.83	4.84	55	54
K558	REMOVE OR INSTALL COMPONENTS OF SHOCK STRUTS	5.77	6.02	63	99
K576	REMOVE OR INSTALL PNEUDRAULIC HOSE ASSEMBLIES	5.75	2.88	7.1	7.1
Te07	ASSEMBLE OR DISASSEMBLE SHOCK STRUTS	5.66	6.47	47	52
F211	MAINTAIN CONSOLIDATED TOOL KITS	5.56	4.14	35	34
K577	REMOVE OR INSTALL TUBE ASSEMBLIES	5.56	3.72	<i>L</i> 9	89
Fe63	FABRICATE LOW PRESSURE RUBBER HOSE ASSEMBLIES	5.41		52	54
1373	ADJUST COMPONENTS OF AIRCRAFT BRAKE SYSTEMS	5.31	4.88	14	***
E189	MAKE ENTRIES ON AFTO FORMS 781K (AEROSPACE VEHICLE				•
	INSPECTION AND DELAYED DISCREPANCY DOCUMENT)	5.30	3.14	35	45
1407	ADJUST HYDRAULIC COMPONENTS OF LANDING GEAR SYSTEMS	5.30	6.07	51	52
K586	SERVICE AIRCRAFT ACCUMULATORS	5.28	2.91	99	69
H304	PERFORM OPERATIONAL CHECKS OF AUXILIARY HYDRAULIC SYSTEMS	5.23	4.61	65	65
K575	REMOVE OR INSTALL HYDRAULIC FILTER ASSEMBLIES OR ELEMENTS	5.17	3.00	77	92
H332	PERFORM OPERATIONAL CHECKS OF HYDRAULIC PRESSURE INDICATING				
	SYSTEMS	5.16	4.27	58	79
3496	AP SYST	5.12	6.04	41	97
H358 K540	PERFORM OPERATIONAL CHECKS OF SPEED BRAKE SYSTEMS REMOVE OF INSTAIL COMPONENTS OF HYDRAILIC PRESSURE	5.09	4.62	09	58
2		2	7	Š	ì
Te04	BENCH CHECK ACCUMULATORS	5.09 9.09	4.09	06 94	9. V
1411	ADJUST HYDRAULIC COMPONENTS OF RUDDER SYSTEMS	20.6	05.5	t c3	C# /
			(1:1	74	₹

TABLE 26 (CONTINUED)

BASS MALLICARY DECEMBER BASSASS RECEIVED ASSASSES.

RECONTRACTOR OF THE STATE OF TH

TASKS NOT REFERENCED TO POI BLOCKS (30 PERCENT OR MORE FIRST-ENLISTMENT PERFORMING)

TASKS	TASKS NOT REFERENCED	TRAINING EMPHASIS*	TASK DIFFICULTY**	FIRST- JOB (N=393)	FIRST- ENLISTMENT (N=866)
K528	REMOVE OR INSTALL COMPONENTS OF AUXILIARY HYDRAULIC SYSTEMS	4.92	4.54	61	29
6233	INSPECT AIRCRAFT INSTALLED ANTI-SKID CONTROL VALVES	4.86	4.65	38	41
I409	ADJUST HYDRAULIC COMPONENTS OF PNEUDRAULIC POWER SYSTEMS	48.4	5.23	28	30
3492	ISOLATE MALFUNCTIONS WITHIN SPRED BRAKE SYSTEMS	4.83	5.35	94	94
1381	ADJUST COMPONENTS OF NOSE WHERE STEERING SYSTEMS	4.80	5.37	87	67
G 226		4.73	5.18	33	34
6240	INSPECT AIRCRAFT INSTALLED ELEVATOR HYDRAULIC SYSTEMS	4.73	5.08	31	33
H294	PERFORM OPERATIONAL CHECKS OF AIR REFUELING HYDRAULIC SYSTEMS	4.73	5.44	07	77
1412	ADJUST HYDRAULIC COMPONENTS OF SPOILER SYSTEMS	4.72	5.55	07	39
N709	OPERATE AEROSPACE GROUND EQUIPMENT (AGE), SUCH AS POWER				
	UNITS, HEATERS, OR LIGHT CARTS	4.72	3.59	65	89
K562	REMOVE OR INSTALL COMPONENTS OF SPOILER SYSTEMS	4.70	5.62	26	55
K525	REMOVE OR INSTALL COMPONENTS OF ANTI-SKID SYSTEMS	69.4	4.67	36	42
1436	ISOLATE MALFUNCTIONS WITHIN ANTI-SKID SYSTEMS	4.67	6.16	28	34
N705	INVENTORY COMPOSITE TOOL KITS (CTK)	4.67	1.68	59	62
E149	COMPLETE AF FORMS 2005 (ISSUE/TURN IN REQUEST)	99.4	3.34	32	31
G 236	INSPECT AIRCRAFT INSTALLED AUXILIARY HYDRAULIC SYSTEMS	79.7	4.11	51	52
K516	REMOVE OR INSTALL COMPONENTS OF AIR REFUELING HYDRAULIC SYSTEMS	79.7	5.20	34	37
H684	INSPECT SHOP HYDRAULIC TEST EQUIPMENT	79.7	4.31	31	35
E169	MAKE ENTRIES ON AF FORMS 2413 (SUPPLY CONTROL LOG)	4.58	2.79	25	30
H301	PERFORM OPERATIONAL CHECKS OF ANTI-SKID SYSTEMS	4.55	5.59	35	41
1391	ADJUST COMPONENTS OF WING FLAP HYDRAULIC SYSTEMS	4.55	5.65	34	35
H679	CLEAN TOOLS	4.50	1.44	63	61
3438	ISOLATE MALFUNCTIONS WITHIN AUXILIARY HYDRAULIC SYSTEMS	4.47	5.59	97	67

TABLE 26 (CONTINUED)

THE PROPERTY AND PROPERTY RESISTANCE AND PROPERTY.

(30 PERCENT OR MORE FIRST-ENLISTMENT PERFORMING)

TASKS	TASKS NOT REFERENCED	TRAINING EMPHASIS*	TASK DIFFICULTY**	FIRST- JOB (N=393)	FIRST- ENLISTMENT (N=866)
K531	REMOVE OR INSTALL COMPONENTS OF ELEVATOR SYSTEMS	4.44	5.59	32	37
H678	CLEAN OR LUBRICATE SHOP HYDRAULIC TEST EQUIPMENT	4.42	3.21	33	35
1389	ADJUST COMPONENTS OF SPRED BRAKE SYSTEMS	4.41	76.9	35	34
L590	ASSEMBLE OR DISASSEMBLE AIRCRAFT RESERVOIRS	4.41	4.79	30	33
M677	CLEAN OR LUBRICATE HYDRAULIC COMPONENTS OF TEST STANDS	4.34	3.33	30	30
H316	PERFORM OPERATIONAL CHECKS OF EMERGENCY PNEUMATIC SYSTEMS	4.31	5.42	37	37
K588	SERVICE AIRCRAFT PNEUMATIC SYSTEMS	4.30	3.13	41	43
1.596	_	4.30	3.24	67	53
H676	CLEAN OR LUBRICATE HOSE FABRICATION EQUIPMENT	4.26	3.16	34	36
K559	REMOVE OR INSTALL COMPONENTS OF SLAT, FLAP, OR WING SWEEP				
	SYSTEMS	4.22	5.91	34	35
G275	INSPECT AIRCRAFT INSTALLED RESERVOIR PRESSURIZATION SYSTEMS	4.19	4.38	38	39
1394	ADJUST HYDRAULIC COMPONENTS OF AILERON SYSTEMS	4.17	5.88	37	36
H314	PERFORM OPERATIONAL CHECKS OF ELEVATOR SYSTEMS	4.14	5.16	37	39
K587	SERVICE AIRCRAFT DAMPERS	4.11.	3.19	30	32
E170	MAKE ENTRIES ON AF FORMS 2430 (SPECIALIST DISPATCH CONTROL				
	106)	4.08	2.78	25	30
C6 3	REVIEW EQUIPMENT FORMS	90.4	3.45	29	31
H312	PERFORM OPERATIONAL CHECKS OF COMPONENTS OF AIR REFUELING				ı
		4.02	5.22	29	30
3445	ISOLATE MALFUNCTIONS WITHIN ELEVATOR SYSTEMS	3.95	6.10	26	30
H682	INSPECT HOSE FABRICATION EQUIPMENT	3.91	3.73	32	34
K504	DRAIN SAMPLES OF HYDRAULIC FLUIDS FOR ANALYSIS	3.89	2.82	36	41
L597	ASSEMBLE OR DISASSEMBLE HYDRAULIC QUICK DISCONNECTS	3.84	2.98	07	42
G288	INSPECT HYDRAULIC PRESSURE INDICATING SYSTEMS	3.83	4.20	38	77

TABLE 26 (CONTINUED)

(30 PERCENT OR MORE FIRST-ENLISTMENT PERFORMING)

TASKS	TASKS NOT REFERENCED	TRAINING EMPHASIS*	TASK DIFFICULTY**	FIRST- JOB (N=393)	FIRST- ENLISTMENT (N=866)
K530 1416	K530 REMOVE OR INSTALL COMPONENTS OF CARGO DOOR SYSTEMS 1416 ADJUST LANDING GEAR DOOR COMPONENTS	3.75	4.57	24	30
K5 03	DRAIN PRESSURIZED HYDRAULIC SYSTEMS	3.50	3.36	£ 66	41
H356	PERFORM OPERATIONAL CHECKS OF RUDDER PEDAL STEERING SYSTEMS	3.27	2.00	38	07
N704	GROUND AIRCRAFT	3.19	1.14	33	38
K556	REMOVE OR INSTALL COMPONENTS OF ROTOR BRAKE SYSTEMS	3.17	99.4	30	30
5	COORDINATE WITH CITEM AIRCRAFT MAINTENANCE SHOFS ON MAINTENANCE PROBLEMS	3.11	4.68	29	34
1377	ADJUST COMPONENTS OF HORIZONTAL TAIL OR STABILIZER SYSTEMS	2.97	5.81	41	37
H687	ISSUE OR RECEIVE TOOLS	2.95	1.89	29	30
H353	PERFORM OPERATIONAL CHECKS OF ROTOR BRAKE SYSTEMS	2.91	4.51	31	34
F214	PAINT FACILITIES OR EQUIPMENT	2.64	2.07	39	41

* Training emphasis average = 2.50 with a standard deviation = 1.59; high TE = 4.09 ** Task difficulty average = 5.00 with a standard deviation = 1.00; high TD = 6.00

COMPARISON OF MAJCOMS

Another dimension along which jobs performed by individuals may vary is across major commands (MAJCOM). Differences among MAJCOM groups could have implications for how the specialty is organized or how new personnel are trained. Thus, an examination of the duties and tasks performed by incumbents according to MAJCOM is necessary. (Background information for MAJCOM groups is given in Table 27.)

Overall, MAJCOMs were very similar in average percent time performing duties (see Table 28). There were, however, certain MAJCOMs spending more time on particular duty areas. For example, ATC had the highest percentage of time spent on training (Duty D), which agrees with their basic mission. AFSC incumbents spend slightly more time performing in-shop maintenance than other command members. Incumbents assigned to ATC, SAC, and MAC spend less time on cross-utilization tasks.

There were also some variations in tasks performed across MAJCOMs. One area where tasks varied among MAJCOMs was in average number of tasks performed: AFSC performed the broadest range of tasks (205), while AFLC averaged the least average number of tasks (86).

The Flightline Pneudraulic Personnel cluster was divided into five functional groups based on type of aircraft maintained. Job types within these functional groups basically reflect command assignment as well. For example, personnel assigned to SAC service aircraft refueling systems and do not work on aileron systems. MAC personnel concentrate on cargo door and elevator operations. They generally do not maintain speed brakes or reservoir systems. Tactical forces personnel (TAC, PACAF, USAFE) are concerned uniquely with the arresting hook systems. Training aircraft personnel from ATC emphasize horizontal tail or stabilizer systems, speed break systems, and aircraft reservoir systems. Basically, the amount of time spent on each technical area and the type of tasks performed are similar across commands. The unique aircraft systems maintained by each group do, however, vary. Aircraft maintained by at least 20 percent of the incumbents within a command are indicated in Table 29. As shown in this table, there is a wide variation in the number of aircraft serviced within a command. Equipment used by at least 30 percent of command members is shown in Table 30. There were some variations by command in use of equipment. For instance, SAC personnel uniquely use the brake spin riveting machine, protractors, and the spin riveter machines. Wing jacks and pneumatic test stands are utilized by members of USAFE, AFLC, and TAC. This list of equipment might be examined to determine if a piece of equipment might be better utilized for training at command level rather than the general course.

Table 31 provides information regarding the organizational structure by command. Most members are assigned to a pneudraulic shop performing duties either on the flightline or in shop. AFSC, MAC, and SAC personnel generally indicate they perform field maintenance. AFLC members concentrate

on depot maintenance. Members of the tactical commands are basically divided between field maintenance, organizational maintenance, and consolidated maintenance.

In terms of satisfaction (see Table 32), at least 74 percent of all MAJCOMs, except AFLC, found their job interesting. There was also agreement (80 percent or above), except for AFLC, on satisfaction with utilization of talents and training. Despite the lower job satisfaction ratings, members of AFLC expressed the highest reenlistment intent (81 percent yes or probably yes). AAC incumbents had the lowest reenlistment intent of the MAJCOM groups.

Duty area time did not vary significantly from one command to another. Differences in command groups were based primarily on technical tasks performed on command associated aircraft. While the type of tasks in removing or installing do not vary much, the specific aircraft systems do. This range of systems and equipment used in the field creates a definite need for follow-on training in the career field.

TABLE 27
SELECTED BACKGROUND DATA FOR 423X4 MAJCOM GROUPS

	AAC	USAFE	AFLC	AFSC	ATC	MAC	PACAF	SAC	TAC
NUMBER IN MAJCOM	20	181	31	29	153	450	58	425	399
AVERAGE NUMBER OF TASKS PERFORMED	138	130	86	205	111	146	122	175	130
DAFSC DISTRIBUTION*				.—.——				·	
42334 42354 42374	20 35 45	14 59 24	3 77 19	10 48 41	5 61 34	7 67 25	10 66 24	13 54 32	11 68 21
AVERAGE MONTHS IN CAREER FIELD	83	65	80	74	81	62	65	68	57
AVERAGE MONTHS IN SERVICE	88	71	82	77	89	68	70	79	66
PERCENT FIRST-ENLISTMENT	50	60	48	38	44	57	53	52	61
PERCENT SUPERVISING	75	42	48	55	36	40	53	47	43

^{*} Columns may not add up to 100 percent due to rounding

TABLE 28

AVERAGE PERCENT TIME SPENT PERFORMING DUTIES BY MAJOR COMMAND GROUPS*

8	DUTIES	AAC (N=20)	USAFE (N=181)	AFLC (N=31)	AFSC (N=29)	ATC (N=153)	MAC (N=450)	PACAF (N=58)	SAC (N=425)	TAC (N=399)
⋖	ORGANIZING AND PLANNING	S	4	10	ო	7	က	7	က	7
~	DIRECTING AND IMPLEMENTING	'n	က	9	က	4	ო	7	က	7
ပ	INSPECTING AND EVALUATING	S	4	∞	က	2	ო	2	4	7
A	TRAINING	က	7	က	,	13	7	1	7	7
M	PERFORMING ADMINISTRATIVE FUNCTIONS	σ.	œ	7	Ŋ	∞	7	10	7	7
fæ, (PERFORMING SUPPLY FUNCTIONS	ო	က	4	ო	4	က	2	က	7
G	INSPECTING AIRCRAFT INSTALLED									
	PNEUDRAULIC SYSTEMS	7	11	∞	11	6	12	10	12	11
Ħ	PERFORMING OPERATIONAL CHECKS OF					1			}	•
	AIRCRAFT PNEUDRAULIC SYSTEMS	12	13	14	12	11	14	12	14	14
H	ADJUSTING PNEUDRAULIC SYSTEMS AND)		}	! !		ļ		
	COMPONENTS	ო	4	ന	9	9	S	4	9	5
ה	ISOLATE MALFUNCTIONS WITHIN AIRCRAFT)		•	•
	PNEUDRAULIC SYSTEMS	9	∞	7	∞	7	10	∞	∞	∞
×	REMOVING, INSTALLING, AND SERVICING									
	AIRCRAFT PNEUDRAULIC SYSTEMS AND									
	COMPONENTS	16	15	15	16	10	17	13	19	16
-	PERFORMING IN-SHOP MAINTENANCE OF								•	
	AIRCRAFT PNEUDRAULIC COMPONENTS	9	7	9	16	11	12	11	11	6
X .	MAINTAINING SHOP AND AEROSPACE									
	GROUND EQUIPMENT (AGE)	က	4	က	က	ო	က	4	က	ო
Z	CROSS UTILIZATION TRAINING (CUT)	16	11	6	∞	4	9	0	4	6

* Columns may not add up to 100 percent due to rounding

TABLE 29

AIRCRAFT MAINTAINED BY COMMAND PERSONNEL (20 PERCENT OR HORE MAINTAINING)

TYPE AIRCRAFT A-10A B-52G B-52H C-130A C-130A C-130A RC-135A C-141B F-4C F-4C F-4C F-4C F-4E F-4E F-4E F-4E F-4E F-4E F-4E F-4E	AAC (N=20) X X X X X	USAFE (N=181)	AFLC (N=31) X X X X X X X X X X X X X X X X X X X	AFSC (N=29) X	ATC (N=153)	MAC (N=450) X X X X X X X X X X X X X X X X X X X	PACAF (N=58) X X X X X	SAC (N=425) X X X	TAC (N=399)
F-15C F-15D F-16A F-16B F-111D HH-1H UH-1N O-2A RF-4C NKC-135 T-33A T-33A T-39A	××		××	*******	××		***		×

TABLE 30

EQUIPHENT MAINTAINED BY COMMAND PERSONNEL
(30 PERCENT OR HORE USING)

EQUIPMENT	AAC (N=20)	USAFE (N=181)	AFLC (N=31)	AFSC (N=29)	ATC (N=153)	MAC (N=450)	PACAF (N=58)	SAC (N=425)	TAC (N=399)
AIR NITROGEN COMPRESSORS AXLE JACKS RDAKE SPIN DIVETING MACHINES	××	××	××	×	×	×			××
CABLE TENSIOHETERS			×					××	
DEGREASERS DIAL INDICATORS		×		× >	×	×	×	×	×
FORCE GAUGES		×	×	4					×
HOSE ASSEMBLY MACHINES	×	×		>	>	>	>	× >	>
HOSE CUT OFF MACHINES	×	×		• ×	€ 🔀	4 ×	< ×	∢ >	< ≻
HOSE SKIVING MACHINES	×	×		×	×	: ×	‡ ≻	: ×	4 ×
HYDRAULIC HOSE TEST UNITS	×	×		×	×	×	ł	×	×
FI CKOMETERS				×	×	×		×	
MULTIMETERS		×		×	×	×	×	×	×
FORTABLE HYDRAULIC TEST STANDS	×	×	×	×	×	×	×	×	×
PRESSURE AND LEAR TESTORS PROTEACTORS				×	×			,	×
SERVICING CARTS	>	>	>	>	>	;	:	×;	:
SHOP HYDRAULIC TEST STANDS	1 ×	¢ ≻	4	∢ >	₫ Þ	∢ >	< >	≺ >	× ;
SPANNER WRENCHES	: ×	: ×	×	4 ×	4 ×	< ≻	∢ ≻	< ≻	∢ >
SPRING COMPRESSORS			×	: ×	: ×	4	4 >	4	4
TORQUE WRENCHES	×	×	×	×	: ×	×	; ×	×	×
WING JACKS	×	×	×		ļ	ł	:	;	* ×
AUDIOVISUAL EQUIPMENT					×				•
EXDEADLIC GROUND SERVICING CARTS	×	×	×	×	×	×	×	×	×
ADTE DIVERTED MACHINES		×		×					×
Je en alteren impaired								×	

TABLE 31

ORGANIZATIONAL STRUCTURE BY COMMAND*

WORK AREA ASSIGNED	AAC (N=20)	USAFE (N=181)	PACAF (N=58)	TAC (N=399)	MAC (N=450)	SAC (N=425)	ATC (N=153)	AFLC (N=31)	AFSC (N=29)
AFPOSPACE GROUND ROUIPMENT (AGE)	2	1		, 			-		
JOB CONTROL MAINTENANCE BRANCH	25	18	7	10 1	e	7	gund	32	e)
PHENDRAULIC SHOP (PRIMARILY FILERITINE)	04	34	07	45	70	74	33	23	6/
PNEUDRAULIC SHOP (PRIMARILY IN-SHOP)	25	23	21	26	9	1	v	13	10
PNEUDRAULIC SHOP (PRIMARILY INSPECTION)		က		7	4	7	9	ოო	င
PROGRAMS AND MOBILITY QUALITY CONTROL TRAINING ORGANIZATION			7	7		က	32		
780 SUPPORT EQUIPMENT OTHER	ĸ	0 W	10	9	8	e	£	19	«)
LEVEL MAINTENANCE PERFORMED						,	•	e	c
CONSOLIDATED MAINTENANCE	S	15	n w	12 1	7	1	-	71	n
DEFUI HAINTENANCE ENROUTE MAINTENANCE FIELD MAINTENANCE ORGANIZATIONAL MAINTENANCE NONE	55 20 15	36 18 9	3 28 28 17	1 40 29 8	73 2 2	80 2 4	50 2 33 33	7 10 6	8 8 8 8 8 8

* Columns may not add up to 100 percent due to no response or rounding

TABLE 32

COMPARISON OF JOB SATISFACTION INDICATORS BY TOTAL MAJCOM GROUPS (PERCENT MEMBERS PERFORMING)*

EXPRESSED JOB INTEREST:	AAC (N=20)	USAFE (N=181)	AFLC (N=31)	AFSC (N=29)	ATC (N=153)	MAC (N=450)	PACAF (N=58)	SAC (N=425)	TAC (N=399)
DULL SO-SO INTERESTING	5 20 75	6 16 77	10 26 61	7 17 76	4 16 78	5 13 79	2 19 74	8 10 80	6 13 80
PERCEIVED UTILIZATION OF TALENTS:	01	71	36	^	12	-	71	=	71
FAIRLY WELL TO PERFECTLY PERCEIVED UTILIZATION OF TRAINING:	06	. e	79	93	88	4 6 0 4 6 0	8 1	• & • &	88
LITTLE OR NOT AT ALL FAIRLY WELL TO PERFECTLY	20 80	17	32	7	10 90	10 88	14 84	8 8 8	111
REENLISTMENT INTENTIONS: PLAN TO RETIRE NO OR PROBABLY NO YES OR PROBABLY YES	15 35 50	64 64	13 81	7 24 69	3 74	4 27 68	5 16 78	5 22 72	4 24 71

* Columns may not add up to 100 percent due to rounding or no response - Indicates less than 1 percent

ANALYSIS OF CONUS VERSUS OVERSEAS GROUPS

Comparisons were made of the tasks performed and background data for 827 AFSC 42354 personnel assigned within the continental United States (CONUS) versus 248 airmen assigned overseas.

No major differences in the utilization of these groups were found. most time-consuming areas for each group (see Table 33) were Removing, Installing, and Servicing Aircraft Pneudraulic Systems, Performing Operational Checks, and Inspecting Aircraft Pneudraulic Systems. The average number of tasks performed by the CONUS and overseas samples were approximately the same (142 CONUS versus 135 overseas). Table 34 provides a listing of sample tasks which differentiate between the CONUS and overseas samples. Greater percentages of individuals working within CONUS were performing tasks related to specific systems, cargo doors, and elevator systems. are also performing more in-shop functions, such as assemble or disassemble hydraulic actuating cylinders. Larger percentages of overseas personnel perform cross-utilization training (CUT) tasks. Although these tasks show differences, they are basically minor variations which reflect specific aircraft responsibilities and maintenance organization concept (COMO vs AFR 66-1).

Background data was similar for the two groups. As shown in Table 35, job satisfaction and utilization were relatively high for airmen assigned both overseas and within CONUS. Although high, overseas airmen had a slightly lower perceived utilization of training (90 vs 83 percent responding positively). There was no difference in reenlistment intentions between the groups.

Overall, this review did not reveal any major differences in utilization between personnel assigned overseas and those serving in the CONUS.

ASSESSED TESTS ASSESSED TESTS ASSESSED TESTS ASSESSED TESTS ASSESSED ASSESS

TABLE 33

AVERAGE PERCENT TIME SPENT PERFORMING DUTIES BY CONUS VS OVERSEAS GROUPS

-		CONUS 42354	OVERSEAS 42354
DU	TIES	(N=827)	(N=248)
A	ORGANIZING AND PLANNING	2	3
В	DIRECTING AND IMPLEMENTING	2	2
C	INSPECTING AND EVALUATING	2	2
D	TRAINING	2	1
E	PERFORMING ADMINISTRATIVE FUNCTIONS	6	8
F	PERFORMING SUPPLY FUNCTIONS	3	3
G	INSPECTING AIRCRAFT INSTALLED PNEUDRAULIC SYSTEMS	11	12
H	PERFORMING OPERATIONAL CHECKS OF AIRCRAFT PNEUDRAULIC SYSTEMS	15	15
I	ADJUSTING PNEUDRAULIC SYSTEMS AND COMPONENTS	6	5
J	ISOLATE MALFUNCTIONS WITHIN AIRCRAFT PNEUDRAULIC SYSTEMS	9	10
K	REMOVING, INSTALLING, AND SERVICING AIRCRAFT PNEUDRAULIC SYSTEMS AND COMPONENTS	18	18
L	PERFORMING IN-SHOP MAINTENANCE OF AIRCRAFT PNEUDRAULIC COMPONENTS	12	9
M	MAINTAINING SHOP AND AEROSPACE GROUND EQUIPMENT (AGE)	3	4
N	CROSS-UTILIZATION TRAINING (CUT)	7	10

^{*} Columns may not add up to 100 percent due to rounding

TABLE 34 TASKS WHICH BEST DIFFERENTIATE BETWEEN 423X4 CONUS AND OVERSEAS PERSONNEL (PERCENT MEMBERS PERFORMING)

TASKS		CONUS (N=827)	OVERSEAS (N=248)	DIFFERENCE
M360		62	44	18
L595				
	CYLINDERS	59	42	17
K562	REMOVE OR INSTALL COMPONENTS OF SPOILER SYSTEMS	61	44	17
L598	ASSEMBLE OR DISASSEMBLE HYDRAULIC VALVES	51	35	16
L589	ASSEMBLE OR DISASSEMBLE ACCUMULATORS	62	46	16
	FABRICATE HIGH PRESSURE TEFLON HOSE ASSEMBLIES	56	40	16
L597				
	DISCONNECTORS	44	30	14
K530	REMOVE OR INSTALL COMPONENTS OF CARGO DOOR SYSTEMS	37	23	14
L591	ASSEMBLE OR DISASSEMBLE BRAKE ASSEMBLIES	57	44	13
L635	BENCH CHECK HYDRAULIC ACTUATORS	49	36	13
J 494	ISOLATE MALFUNCTIONS WITHIN SPOILER SYSTEMS	53	40	13
	FABRICATE MEDIUM PRESSURE TEFLON HOSE ASSEMBLIES	55	42	13
L661		63	50	13
H314	PERFORM OPERATIONAL CHECK OF ELEVATOR SYSTEMS	43	31	12
*	* * * * * * * *	* *	* *	* *
N717	POSITION OR REMOVE AIRCRAFT CHOCKS OR GROUND			
B100	SAFETY PINS	33	46	-13
E188	MAKE ENTRIES ON AFTO FORMS 781H (AEROSPACE VEHICLE	••	0.1	
MZOZ	FLIGHT STATUS AND MAINTENANCE DOCUMENT)	18	31	-13
	LAUNCH OR RECOVER AIRCRAFT	41	54	-13
N/14	PERFORM SINGLE-POINT AIRCRAFT REFUELING OR	•	00	
N716	DEFUELING POSITION NONDOMEDED OF POMEDED AGE TO A LEGISLATION	8	22	-14
	POSITION NONPOWERED OR POWERED AGE TO AIRCRAFT	38	52	-14
	TOW NONPOWERED AGE	11	26 5.0	-15
N706 N729	JACK OR LEVEL AIRCRAFT WALK WINGS OR TAILS	34	52 50	-18
N/29	MUTE MINGS OK INITS	30	50	-20

Average Number of Tasks Performed: CONUS = 142

Overseas = 135

TABLE 35

COMPARISON OF JOB SATISFACTION INDICATORS BY CONUS AND OVERSEAS GROUPS (PERCENT MEMBERS PERFORMING)*

EXPRESSED JOB INTEREST:	CONUS 42354 (N=827)	OVERSEAS 42354 (N=248)
EXTRESSED SOD TRIEREST.		
DULL	6	5
SO-SO	13	13
INTERESTING	79	80
PERCEIVED UTILIZATION OF TALENTS:		
LITTLE OR NOT AT ALL	12	16
FAIRLY WELL TO PERFECTLY	87	82
PERCEIVED UTILIZATION OF TRAINING:		
LITTLE OR NOT AT ALL	9	15
FAIRLY WELL TO PERFECTLY	90	83
REENLISTMENT INTENTIONS:		
PLAN TO RETIRE	1	2
NO OR PROBABLY NO	29	28
YES OR PROBABLY YES	68	69

^{*} Columns may not add up to 100 percent due to no response or rounding

COMPARISON TO PREVIOUS SURVEY

The results of the last survey in the 423X4 career ladder were reviewed to determine changes, if any, in the jobs performed by aircraft pneudraulic systems personnel. The last survey of this career ladder was made in 1976 under AFS 421X2, Aircraft Pneudraulic Repairman/Repair Technician career ladder. The career field was changed from AFS 421X2 to AFS 423X4 on 30 April 1976. During 1977, In-Flight Refueling Systems Mechanics from AFS 423X6 were incorporated into the 423X4 career ladder. The addition of In-Flight Refueling Personnel appears to have been accomplished without difficulty. Personnel assigned to SAC attend a follow-on course after completing the basic ABR program.

Job satisfaction factors were compared for the 1976 and 1984 TAFMS groups (see Table 36). Expressed job interest, utilization of talents and training is higher for first-term personnel in the 1984 sample. Reenlistment intent is also considerably higher for the 1-48 month group in the 1984 sample. After the first-enlistment period, the pattern of job satisfaction, though high, begins a shifting pattern. By the fourth-enlistment, the 1984 sample shows a slightly less favorable pattern than the 1976 sample. Reenlistment intent is high for both samples through the fourth-enlistment period. At the fifth-enlistment point, only 42 percent of the 1984 sample (52 percent in 1976 sample) indicate they plan to reenlist.

The current job structure analysis resulted in 2 clusters and 10 independent job types. The 1976 analysis identified 16 groupings. The general areas covered by the groupings in the 1976 study are listed below.

- I. General Pneudraulic Repairmen
- II. Specific Type Aircraft Pneudraulic Repairmen
- III. In-Shop Pneudraulic Repairmen and NCOICs
- IV. Supervisors
- V. Training Personnel
- VI. Antenna Systems Technicians
- VII. SAC Quality Control Inspectors

The 1976 and 1984 job analysis show the same basic structure of the career ladder. In the 1984 analysis, division occurred among the general jobs based on the addition of in-flight refueling duties performed primarily by SAC personnel. For instance, in the 1984 career structure, two general pneudraulic mechanics job types (primarily first-term personnel) were identified. The two job groups were performing many of the same tasks; however, one group was responsible for in-flight refueling equipment, the other group was not. The 1976 analysis identified a small group of five incumbents known as antenna systems technicians, which were not identified as a job type in the current analysis. This group was included in the Flightline Pneudraulic Personnel cluster. Generally, the career ladder structure seems to follow the same pattern as shown in the 1976 analysis.

Skill level and TAFMS groups are comparable, following the normal line of progression.

TABLE 36

322 1 1000 WILLIAM PROCESS | 1600 WILLIAM | 1600 WI

COMPARISON OF PREVIOUS SURVEY AND CURRENT SURVEY 423X4 TAFMS GROUPS (PERCENT MEMBERS PERFORMING)*

	1-48	89	67	96-67	MONTHS 97-	MONTHS IN SERVICE 97-144		145-192	193-240	-240
EXPRESSED JOB INTEREST:	1976	1984	1976	1984	1976	1984	1976	1984	1976	
DULL SO-SO INTERESTING	13 19 64	6 12 80	9 13 74	6 15 78	7 18 72	6 16 78	တ ထ က	4 11 82	9 6 8 7 8 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	
PERCEIVED UTILIZATION OF TALENTS:										
LITTLE OR NOT AT ALL FAIRLY WELL TO PERFECTLY	23 76	11 88	12 87	15 84	91	15 83	10	11	111	
PERCEIVED UTILIZATION OF TRAINING:						<u>-</u> : -				
LITTLE OR NOT AT ALL FAIRLY WELL TO PERFECTLY	12 88	6 06	93.5	12 88	7 9 9	15 83	93	12 87	10	
REENLISTMENT INTENTIONS: **										
PLAN TO RETIRE NO OR PROBABLY NC YES OR PROBABLY NO	52	36 62	22	1 19 79	9 76	99	3	3 3 89	74e	

* Columns may not add up to 100 percent due to no response or rounding ** 1976 survey response did not include plan to retire

SPECIAL CONSIDERATIONS

The pneumatic portion of the basic course was dropped in 1976, since only one aircraft in the inventory required knowledge of this type system. No information was available, however, to determine how many personnel were performing tasks related to pneumatic systems or components. To determine if training should be required, items in the current 423X4 inventory were split to identify "hydraulic" and "pneumatic" functions separately.

Tasks involving pneumatic activities are shown in Table 37. In examining the percent members performing data, only one task, "service aircraft pneumatic systems", was performed by more than 30 percent of the first-enlistment personnel. (This task also had a high TE rating.) The percentage of members performing tasks shown for the major command samples, however, shows that personnel assigned to TAC and USAFE perform many of the pneumatic functions. This indicates that, while the total percentage performing these penumatic tasks does not necessarily create a requirement for formal school training, some specific type of training, i.e., trailer course, OJT, or FTD, probably should be provided by the specific commands. This is further emphasized by tasks which show above average TE ratings, such as items G271, I424, and K553 (see Table 37).

TABLE 37

INVENTORY TASKS RELATED TO PNEUMATIC SYSTEMS (PERCENT MEMBERS PERFORMING)

			FIRS	I-ENLISTM	FIRST-ENLISTMENT PERSONNEL	NNEL		
TASKS		TOTAL (N=866)	MAC (N=246)	SAC (N=184)	TAC (N=216)	USAFE (N=103)	TE RATING*	TD RATING**
G270	INSPECT AIRCRAFT INSTALLED PNEUMATIC CANOPY							
		0	က	1	15	14	2.45	68.4
6271	INSPECT AIRCRAFT INSTALLED PNEUMATIC POWER							
0760	SYSTEMS DEDECODE OBEDANTONAL CHECKS OF ENTINALMIC	22	14	18	36	34	3.56	5.02
040	CANOPY SYSTEMS	đ	·	·	7	21	71 6	7 63
H349		n	1	4	3	17	7.10	70.+
	CANOPY SYSTEMS	25	12	17	39	38	3.03	4.93
H350	PERFORM OPERATIONAL CHECKS OF PNEUMATIC			•	•) })) \ !
, 1		56	13	27	41	29	2.53	4.39
1414	ADJUST HYDRAULIC OR PNEUMATIC COMPONENTS OF							.
	CAMERA DOOR SYSTEMS	7	7	1	-	ı	1.09	5.44
1415	ADJUST HYDRAULIC OR PNEUMATIC COMPONENTS OF							
	RAM AIR TURBINE SYSTEMS	σ	6	7	17	10	2.17	5.81
1417	ADJUST PNEUMATIC COMPONENTS OF AIR INDUCTION							
		4	7	7	7	~	1.50	5.98
1418	ADJUST PNEUMATIC COMPONENTS OF AIRCRAFT							
		7	7	1	7	•	.55	5.41
1419	PNEUMATIC COMPONENTS OF CANOPY SY	7	ო	ო	9	7	1.75	5.63
1420	COMPONENTS OF INFRARED	က	က	7	9	•	.67	5.41
1741	ADJUST FREUMATIC COMPONENTS OF LANDING GEAR SYSTEMS	22	ň	o C	6	90	2 17	12
1422	ADJUST PREUMATIC COMPONENTS OF MISSILE OR ROMR	3	C	9	75	07	3.17	5.71
		4	2	∞	cr.	ı	2.00	5.87
1423		•	1)	5)	
7071	POWER SYSTEMS	18	15	16	54	14	3.08	5.25
1474	AUJUST FREUMTIC COMPONENTS OF RESERVOIR PRESSURIZATION SYSTEMS	17	S	28	77	14	3.20	5.02

TABLE 37 (CONTINUED)

INVENTORY TASKS RELATED TO PNEUMATIC SYSTEMS (PERCENT MEMBERS PERFORMING)

			FIRS	FIRST-ENLISTMENT PERSONNEL	ENT PERSO	NNEL		
TASKS	S	TOTAL (N≃866)	MAC (N=246)	SAC (N=184)	TAC (N=216)	USAFE (N=103)	TE RATING*	TD RATING**
3469	ISOLATE MALFUNCTIONS WITHIN MISSILE OR BOMB							
	BAY DOOR PNEUMATIC SYSTEMS	4	4	10	က	ı	1.84	6.25
3472	ISOLATE MALFUNCTIONS WITHIN NOSE WHEEL							
	STEERING PNEUMATIC SYSTEMS	12	10	6	16	18	1.88	5.49
3480	H							
	SYSTEMS	œ	ო	7	15	13	2.09	5.62
3481	ISOLATE MALFUNCTIONS WITHIN PNEUMATIC							
		ო	೯	7	S	1	.59	5.90
3482	Η							
a 2		17	11	20	24	16	2.08	4.84
3483	ISOLATE MALFUNCTIONS WITHIN PNEUMATIC POWER							
		18	6	15	30	22	3.20	5.53
3484	ISOLATE MALFUNCTIONS WITHIN PNEUMATIC SYSTEMS							
	USING ELECTRICAL SCHEMATICS	7	5	9	∞	6	2.09	6.63
3485	—							
1	USING PNEUMATIC	19	6	15	33	19	3.08	5.59
K552	REMOVE (•	•	•	•	•	•	
VCC3	-	20	'n	-	14	19	2.33	5.31
CC	POWER SYSTEMS	75	13	ä	1.7	76	2 7.5	70 7
K554	œ	3	1	2	†	ţ		. 00
	PRESSURE INDICATING SYSTEMS	23	13	27	35	24	2.70	4.23
K588	SERVICE AIRCRAFT PNEUMATIC SYSTEMS	73	23	23	7.1	99	4.30	3,13
L602	ASSEMBLE OR DISASSEMBLE PNEUMATIC VALVES	17	-	22	15	38	3,03	5 28
T629		•	<u>;</u>	ļ)) †)	3
:		7	9	12	5	4	2.14	3.85
T649	BENCH	11	9	8	17	13	3.16	4.36
L650	BENCH CHECK PNEUMATIC SELECTOR VALVES	œ	9	11	8	7	2.47	3.65

TABLE 37 (CONTINUED)

INVENTORY TASKS RELATED TO PNEUMATIC SYSTEMS (PERCENT MEMBERS PERFORMING)

	TOTAL (N=866)	M691 PERFORM OPERATIONAL CHECKS OF PNEUMATIC TEST STANDS	M695 PERFORM OPERATOR MAINTENANCE ON PNEUMATIC TEST STANDS
FIRE	MAC	4	4
FIRST-ENLISTMENT PERSONNEL	SAC (N=184)	9	6
ENT PERSO	TAC (N=216)	11	10
NNET	USAFE (N=103)	10	6
	TE RATING*	2.19	2.59
	TD RATING**	97.7	4.30

^{*} Training emphasis average = 2.50 with SD 1.59 ** Task difficulty average = 5.0 with SD = 1

IMPLICATIONS

Occupational survey results show 423X4 personnel perform maintenance on a common core of pneudraulic systems (i.e., brake, nose gear). Many of the systems serviced by these pneudraulic specialists are aircraft specific. Consideration for training must be made on which factors are representative of basic pneudraulic functions and which are aircraft specific and more feasibly taught through follow-on training on incumbent's first assignment. The large number of first-term personnel in this career ladder, combined with the variety of aircraft systems maintained, places heavy emphasis on both formal school and follow-on training. These factors also create a demand to retain senior skill personnel to accomplish follow-through training on specific aircraft systems.

Generally, the STS and POI were supported by the survey data. However, a number of tasks performed by first-enlistment personnel were not matched to these documents. Training managers should review the items not matched to determine their applicability to the STS and POI.

Job satisfaction and reenlistment potential appear positive in this career ladder. Comparison of the AFR 39-1 Specialty Description with survey information indicates support of this document.

Basically, the career field appears stable.

APPENDIX A

TABLE I FLIGHTLINE PNEUDRAULICS PERSONNEL (GRP126)

TASKS		PERCENT MEMBERS PERFORMING (N=1,063)
H307	PERFORM OPERATIONAL CHECKS OF BRAKE SYSTEMS	94
K543	REMOVE OR INSTALL COMPONENTS OF LANDING GEAR RETRACTION OR	
	EXTENSION SYSTEMS	93
K565	REMOVE OR INSTALL ENGINE DRIVE HYDRAULIC PUMPS	92
H341	PERFORM OPERATIONAL CHECKS OF NOSE WHEEL STEERING SYSTEMS	91
N/UZ	BLEED OR SERVICE DRAKE SISIEMS	90
E187		
	AND WORK DOCUMENT	89
K546	REMOVE OR INSTALL COMPONENTS OF NOSE WHEEL STEERING	
	SYSTEMS	89
K575	REMOVE OR INSTALL HYDRAULIC FILTER ASSEMBLIES OR ELEMENTS	88
K523	REMOVE OR INSTALL COMPONENTS OF AIRCRAFT BRAKE SYSTEMS	88
J470	ISOLATE MALFUNCTIONS WITHIN NOSE WHEEL STEERING HYDRAULIC	•-
	SYSTEMS	87
J440	ISOLATE MALFUNCTIONS WITHIN BRAKE SYSTEMS	87
K557	REMOVE OR INSTALL COMPONENTS OF RUDDER SYSTEMS	87
H357	PERFORM OPERATIONAL CHECKS OF RUDDER SYSTEMS	86
K578	REPACK SHOCK STRUTS ON AIRCRAFT	86
K576	REMOVE OR INSTALL PNEUDRAULIC HOSE ASSEMBLIES	85
K558	REMOVE OR INSTALL COMPONENTS OF SHOCK STRUTS	85
J459	ISOLATE MALFUNCTIONS WITHIN BRAKE SYSTEMS REMOVE OR INSTALL COMPONENTS OF RUDDER SYSTEMS PERFORM OPERATIONAL CHECKS OF RUDDER SYSTEMS REPACK SHOCK STRUTS ON AIRCRAFT REMOVE OR INSTALL PNEUDRAULIC HOSE ASSEMBLIES REMOVE OR INSTALL COMPONENTS OF SHOCK STRUTS ISOLATE MALFUNCTIONS WITHIN HYDRAULIC SYSTEMS USING HYDRAULIC SCHEMATICS ISOLATE MALFUNCTIONS WITHIN LANDING GEAR EXTENSION OR RETRACTION HYDRAULIC SYSTEMS INSPECT AIRCRAFT INSTALLED LANDING GEAR EXTENTION OR RETRACTION COMPONENTS PERFORM OPERATIONAL CHECKS OF HYDRAULIC POWER SYSTEMS INSPECT AIRCRAFT INSTALLED BRAKE SYSTEM COMPONENTS	84
J463	ISOLATE MALFUNCTIONS WITHIN LANDING GEAR EXTENSION OR	
	RETRACTION HYDRAULIC SYSTEMS	84
G257	INSPECT AIRCRAFT INSTALLED LANDING GEAR EXTENTION OR	
	RETRACTION COMPONENTS	84
H331	PERFORM OPERATIONAL CHECKS OF HYDRAULIC POWER SYSTEMS	83
G237	INSPECT AIRCRAFT INSTALLED BRAKE SYSTEM COMPONENTS REMOVE OR INSTALL COMPONENTS OF HYDRAULIC POWER SYSTEMS	83
K539	REMOVE OR INSTALL COMPONENTS OF HYDRAULIC POWER SYSTEMS	83
K577	REMOVE OR INSTALL TUBE ASSEMBLIES	83
J457	ISOLATE MALFUNCTIONS WITHIN HYDRAULIC POWER SYSTEMS	82
N709		
	UNITS, HEATERS, OR LIGHT CARTS	82
G261	INSPECT AIRCRAFT INSTALLED NOSE WHEEL STEERING SYSTEMS	82
H332	PERFORM OPERATIONAL CHECKS OF HYDRAULIC PRESSURE	
•	INDICATING SYSTEMS	81
G262	INSPECT AIRCRAFT INSTALLED NOSE WHEEL STEERING SYSTEM	
	COMPONENTS	81
E184	MAKE ENTRIES ON AFTO FORMS 350 (REPARABLE ITEM PROCESSING	
	TAG)	81

SARAT ARRESTA STREET, STREET,

SECTION CONTRACTOR PROGRESS

TABLE IA

TRAINING AIRCRAFT PNEUDRAULIC PERSONNEL (GRP487)

TASKS		PERCENT MEMBERS PERFORMING (N=61)
N702	BLEED OR SERVICE BRAKE SYSTEMS	98
K543	REMOVE OR INSTALL COMPONENTS OF LANDING GEAR RETRACTION OR EXTENSION SYSTEMS	98
	EATERDIUM DIDIEMD	70
K546	REMOVE OR INSTALL COMPONENTS OF SPEED BRAKE SYSTEMS REMOVE OR INSTALL COMPONENTS OF NOSE WHEEL STEERING SYSTEMS	96
	SYSTEMS	98
K542	REMOVE OR INSTALL COMPONENTS OF LANDING GEAR DOOR SYSTEMS	98
I381	ADJUST COMPONENTS OF NOSE WHEEL STEERING SYSTEMS	98
L595	ASSEMBLE OR DISASSEMBLE HYDRAULIC ACTUATING CYLINDERS	97
H307	PERFORM OPERATIONAL CHECKS OF BRAKE SYSTEMS	97
H358	PERFORM OPERATIONAL CHECKS OF SPEED BRAKE SYSTEMS	97
1389	ADJUST COMPONENTS OF SPEED BRAKE SYSTEMS	97
L591	ASSEMBLE OR DISASSEMBLE BRAKE ASSEMBLIES	95
K536	SYSTEMS REMOVE OR INSTALL COMPONENTS OF LANDING GEAR DOOR SYSTEMS ADJUST COMPONENTS OF NOSE WHEEL STEERING SYSTEMS ASSEMBLE OR DISASSEMBLE HYDRAULIC ACTUATING CYLINDERS PERFORM OPERATIONAL CHECKS OF BRAKE SYSTEMS PERFORM OPERATIONAL CHECKS OF SPEED BRAKE SYSTEMS ADJUST COMPONENTS OF SPEED BRAKE SYSTEMS ASSEMBLE OR DISASSEMBLE BRAKE ASSEMBLIES REMOVE OR INSTALL COMPONENTS OF HORIZONTAL TAIL OR STABILIZER SYSTEMS INSPECT AIRCRAFT INSTALLED LANDING GEAR DOOR ACTUATING COMPONENTS	0.5
005/	STABILIZER SYSTEMS	95
G256	COMPONENTS	95
W 2/,1	DEDENDM ODERATIONAL CHECKS OF MOSE LIMBEL STEEDING SYSTEMS	95
H201	DEDENDE OPERATIONAL CHECKS OF ROSE WHEEL STEERING SISTEMS	95
11291 1500	ACCOMBLE OF DICACCEMBLE ATROPACT DECEDUATE	95
TYUS	ASSEMBLE OR DISASSEMBLE SHOCK STRIFTS	93
N724	SERVICE ATROPART SHOCK STRIPTS	93
G257	COMPONENTS PERFORM OPERATIONAL CHECKS OF NOSE WHEEL STEERING SYSTEMS PERFORM OPERATIONAL CHECKS OF AILERON SYSTEMS ASSEMBLE OR DISASSEMBLE AIRCRAFT RESERVOIRS ASSEMBLE OR DISASSEMBLE SHOCK STRUTS SERVICE AIRCRAFT SHOCK STRUTS INSPECT AIRCRAFT INSTALLED LANDING GEAR EXTENSION OR RETRACTION COMPONENTS FABRICATE MEDIUM PRESSURE TEFLON HOSE ASSEMBLIES REPACK SHOCK STRUTS ON AIRCRAFT CLEAN TOOLS BENCH CHECK HYDRAULIC ACTUATORS INSPECT AIRCRAFT INSTALLED BRAKE SYSTEM COMPONENTS PERFORM OPERATIONAL CHECKS OF HORIZONTAL TAIL OR STABILIZER SYSTEMS	75
023,	RETRACTION COMPONENTS	93
L665	FABRICATE MEDIUM PRESSURE TEFLON HOSE ASSEMBLIES	93
K578	REPACK SHOCK STRUTS ON AIRCRAFT	92
M679	CLEAN TOOLS	92
L635	BENCH CHECK HYDRAULIC ACTUATORS	92
G237	INSPECT AIRCRAFT INSTALLED BRAKE SYSTEM COMPONENTS	92
H323	PERFORM OPERATIONAL CHECKS OF HORIZONTAL TAIL OR STABILIZER SYSTEMS ADJUST COMPONENTS OF HORIZONTAL TAIL OR STABILIZER SYSTEMS INSPECT AIRCRAFT INSTALLED SPEED BRAKE SYSTEMS	
	STABILIZER SYSTEMS	92
I377	ADJUST COMPONENTS OF HORIZONTAL TAIL OR STABILIZER SYSTEMS	92
G282	INSPECT AIRCRAFT INSTALLED SPEED BRAKE SYSTEMS	92
K565	REMOVE OR INSTALL ENGINE DRIVEN HYDRAULIC PUMPS	92
J470	REMOVE OR INSTALL ENGINE DRIVEN HYDRAULIC PUMPS ISOLATE MALFUNCTIONS WITHIN NOSE WHEEL STEERING HYDRAULIC SYSTEMS	
	Systems	/-
J492	ISOLATE MALFUNCTIONS WITHIN SPEED BRAKE SYSTEMS	92
G261	INSPECT AIRCRAFT INSTALLED NOSE WHEEL STEERING SYSTEMS	90
TOOL	ANTICO INDUSTRIC COMPONENTS OF ATTERON SYSTEMS	00

TABLE IB

AIRLIFT AIRCRAFT PNEUDRAULIC PERSONNEL (GRP292)

TASKS		PERCENT MEMBERS PERFORMING (N=251)
H307	PERFORM OPERATIONAL CHECKS OF BRAKE SYSTEMS REMOVE OR INSTALL COMPONENTS OF AILERON SYSTEMS REMOVE OR INSTALL COMPONENTS OF RUDDER SYSTEMS PERFORM OPERATIONAL CHECKS OF AILERON SYSTEMS REMOVE OR INSTALL ENGINE DRIVEN HYDRAULIC PUMPS REMOVE OR INSTALL COMPONENTS OF ELEVATOR SYSTEMS PERFORM OPERATIONAL CHECKS OF NOSE WHEEL STEERING SYSTEMS ISOLATE MALEUNCTIONS WITHIN RDAKE SYSTEMS	96
K513	REMOVE OR INSTALL COMPONENTS OF AILERON SYSTEMS	94
K557	REMOVE OR INSTALL COMPONENTS OF RUDDER SYSTEMS	94
H291	PERFORM OPERATIONAL CHECKS OF AILERON SYSTEMS	94
K565	REMOVE OR INSTALL ENGINE DRIVEN HYDRAULIC PUMPS	93
K531	REMOVE OR INSTALL COMPONENTS OF ELEVATOR SYSTEMS	93
H341	PERFORM OPERATIONAL CHECKS OF NOSE WHEEL STEERING SYSTEMS	93
J 7 7 U	IDOUALE MADE ONCITORS WITHIN DIVAGE SISTEMS	76
H314	PERFORM OPERATIONAL CHECKS OF ELEVATOR SYSTEMS	92
K543	REMOVE OR INSTALL COMPONENTS OF LANDING GEAR RETRACTION OR	
	EXTENSION SYSTEMS	92
N702	BLEED OR SERVICE BRAKE SYSTEMS	91
K523 K546	REMOVE OR INSTALL COMPONENTS OF AIRCRAFT BRAKE SYSTEMS REMOVE OR INSTALL COMPONENTS OF NOSE WHEEL STEERING	91
	SYSTEMS	91
E187	MAKE ENTRIES ON AFTO FORMS 781A (MAINTENANCE DISCREPANCY	
	AND WORK DOCUMENT)	90
H357	PERFORM OPERATIONAL CHECKS OF RUDDER SYSTEMS	90
J428	ISOLATE MALFUNCTIONS WITHIN AILERON SYSTEMS	90
K575	REMOVE OR INSTALL HYDRAULIC FILTER ASSEMBLIES OR ELEMENTS	90
K578		90
J470		
	SYSTEMS	90
K586	SERVICE AIRCRAFT ACCUMULATORS	90
H304	PERFORM OPERATIONAL CHECKS OF AUXILIARY HYDRAULIC SYSTEMS	89
J445	ISOLATE MALFUNCTIONS WITHIN ELEVATOR SYSTEMS	88
H363	PERFORM OPERATIONAL CHECKS OF WING FLAP SYSTEMS	88
H315	PERFORM OPERATIONAL CHECKS OF EMERGENCY HYDRAULIC SYSTEMS	88
K558	REMOVE OR INSTALL COMPONENTS OF SHOCK STRUTS	87
K576	REMOVE OR INSTALL PNEUDRAULIC HOSE ASSEMBLIES	87
K577	REMOVE OR INSTALL TUBE ASSEMBLIES	86
L661	FABRICATE HIGH PRESSURE RUBBER HOSE ASSEMBLIES	86
N724	SERVICE AIRCRAFT SHOCK STRUTS	86
J459	ISOLATE MALFUNCTIONS WITHIN HYDRAULIC SYSTEMS USING	
	HYDRAULIC SCHEMATICS	86
N723		86
J491	ISOLATE MALFUNCTIONS WITHIN RUDDER SYSTEMS	85
K530	REMOVE OR INSTALL COMPONENTS OF CARGO DOOR SYSTEMS	84
J463		
	RETRACTION HYDRAULIC SYSTEMS	84

TABLE IC

FIGHTER AIRCRAFT PNEUDRAULIC PERSONNEL (GRP296)

TASKS		PERCENT MEMBERS PERFORMING (N=270)
TAPED		(11-270)
K543	REMOVE OR INSTALL COMPONENTS OF LANDING GEAR RETRACTION OR	
	EXTENSION SYSTEMS	97
	SERVICE AIRCRAFT HYDRAULIC SYSTEMS	97
N341	PERFORM OPERATIONAL CHECKS OF NOSE WHEEL STEERING SYSTEMS	96
K546	REMOVE OR INSTALL COMPONENTS OF NOSE WHEEL STEERING	
	SYSTEMS	94
N703		
	FROM AIRCRAFT	94
	BLEED OR SERVICE BRAKE SYSTEMS	94
H358	PERFORM OPERATIONAL CHECKS OF SPEED BRAKE SYSTEMS	94
N709	OPERATE AEROSPACE GROUND EQUIPMENT (AGE), SUCH AS FOWER	
	UNITS, HEATERS, OR LIGHT CARTS	93
J470		
	SYSTEMS	93
K560	REMOVE OR INSTALL COMPONENTS OF SPEED BRAKE SYSTEMS	93
K565	REMOVE OR INSTALL ENGINE DRIVEN HYDRAULIC PUMPS	92
H307	PERFORM OPERATIONAL CHECKS OF BRAKE SYSTEMS	92
J463	REMOVE OR INSTALL COMPONENTS OF SPEED BRAKE SYSTEMS REMOVE OR INSTALL ENGINE DRIVEN HYDRAULIC PUMPS PERFORM OPERATIONAL CHECKS OF BRAKE SYSTEMS ISOLATE MALFUNCTIONS WITHIN LANDING GEAR EXTENSION OR RETRACTION HYDRAULIC SYSTEMS REMOVE OR INSTALL COMPONENTS OF HYDRAULIC POWER SYSTEMS WALK WINGS OR TAILS DURING AIRCRAFT TOWING OPERATIONS BENEFORM OPERATIONAL CHECKS OF HYDRAULIC POWER SYSTEMS	0.1
****	RETRACTION HYDRAULIC SYSTEMS	91
K539	REMOVE OR INSTALL COMPONENTS OF HYDRAULIC POWER SYSTEMS	90
N/29	WALK WINGS OR TAILS DURING AIRCRAFT TOWING OPERATIONS	89
UOOI	PERFORM OPERATIONAL CHECKS OF MINKAULIC POWER SISTEMS	09
	SERVICE AIRCRAFT SHOCK STRUTS PERFORM OPERATIONAL CHECKS OF LANDING GEAR EMERGENCY SYSTEMS ISOLATE MALFUNCTIONS WITHIN SPEED BRAKE SYSTEMS MAKE ENTRIES ON AFTO FORMS 781A (MAINTENANCE DISCREPANCY	89
Н336	PERFURM UPERATIONAL CHECKS OF LANDING GEAR EMERGENCY	89
T/00	SISIEMS TOOLAGE MALEIMONIONE CITRIEN CREED DRAWE OVERENCE	88
	ISOLATE MALFUNCTIONS WITHIN SPEED BRAKE SYSTEMS MAKE ENTRIES ON AFTO FORMS 781A (MAINTENANCE DISCREPANCY AND WORK DOCUMENT)	00
E10/	MARE ENIMIES ON AFTO FORMS /OTA (MAINTENANCE DISCREPANCE	00
T/57	MAKE ENTRIES ON AFTO FORMS 781A (MAINTENANCE DISCREPANCY AND WORK DOCUMENT) ISOLATE MALFUNCTIONS WITHIN HYDRAULIC POWER SYSTEMS INSPECT AIRCRAFT INSTALLED NOSE WHEEL STEERING SYSTEMS REMOVE OR INSTALL COMPONENTS OF SHOCK STRUTS JACK OR LEVEL AIRCRAFT SERVICE AIRCRAFT ACCUMULATORS INSPECT AIRCRAFT INSTALLED LANDING GEAR EXTENSION OR RETRACTION COMPONENTS	99
0961	INCORPOR AIDCOART INCTAILED NOCE CHEEL CARECTING CACAEMO	88
W550	DEMONE OF INCLUIT COMPONENTS OF SHOCK STRIKE SISIENS	9.0 9.0
N706	TACK OD I BOOK ALDODART	88
K20Y	CREATCH TEACH TEACHMIT THUNG	88
G257	THEOREM ATRICART ACCOMMENDED TANDING GRAD EVERNETON OF	00
G2.37	RETRACTION COMPONENTS	87
J459	101111111111111111111111111111111111111	0,
JTJJ	HYDRAULIC SCHEMATICS	87
K575	REMOVE OR INSTALL HYDRAULIC FILTER ASSEMBLIES OR ELEMENTS	
K523	REMOVE OR INSTALL COMPONENTS OF AIRCRAFT BRAKE SYSTEMS	87
	THEOREM ATDUDATE THEMATION INTO AN ALL DIVINE CICIENTS	96

TABLE ID

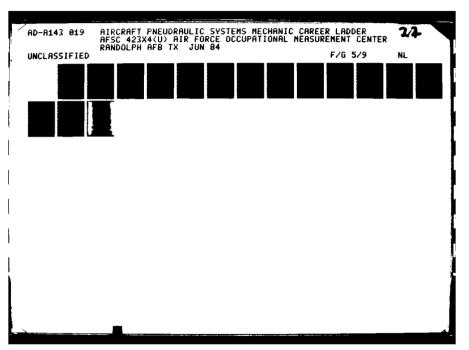
RESCUE AND RECOVERY AIRCRAFT PNEUDRAULIC PERSONNEL (GRP443)

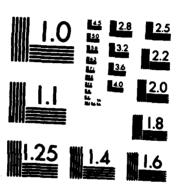
TASKS		PERCENT MEMBERS PERFORMING (N=10)
E169		100
N705	INVENTORY COMPOSITE TOOL KITS (CTK)	100
N703	CONNECT OR DISCONNECT PORTABLE HYDRAULIC TEST STANDS TO OR	
	FROM AIRCRAFT	100
	PERFORM OPERATIONAL CHECKS OF HYDRAULIC POWER SYSTEMS	100
	REMOVE OR INSTALL TUBE ASSEMBLIES	100
	BLEED OR SERVICE BRAKE SYSTEMS	100
K543	REMOVE OR INSTALL COMPONENTS OF LANDING GEAR RETRACTION OR	
	EXTENSION SYSTEMS	100
K528	REMOVE OR INSTALL COMPONENTS OF AUXILIARY HYDRAULIC	
	SYSTEMS	100
K575	REMOVE OR INSTALL HYDRAULIC FILTER ASSEMBLIES OR ELEMENTS	100
E187	MAKE ENTRIES ON AFTO FORMS 781A (MAINTENANCE DISCREPANCY	
	AND WORK DOCUMENT)	90
E183		
	COLLECTION RECORD)	90
F211	MAINTAIN CONSOLIDATED TOOL KITS	90
K539	REMOVE OR INSTALL COMPONENTS OF HYDRAULIC POWER SYSTEMS	
	REMOVE OR INSTALL COMPONENTS OF ROTOR BRAKE SYSTEMS	90
	INVENTORY EQUIPMENT, TOOLS, OR SUPPLIES	90
	PERFORM OPERATIONAL CHECKS OF ROTOR BRAKE SYSTEMS	90
G253	INSPECT AIRCRAFT INSTALLED HYDRAULIC POWER SYSTEMS	90
G226	INSPECT AIR REFUELING HYDRAULIC SYSTEMS	90
N709	OPERATE AEROSPACE GROUND EQUIPMENT (AGE), SUCH AS POWER	
	UNITS, HEATERS, OR LIGHT CARTS	90
	REMOVE OR INSTALL ENGINE DRIVEN HYDRAULIC PUMPS	90
	REMOVE OR INSTALL COMPONENTS OF AIRCRAFT BRAKE SYSTEMS	90
C101	WRITE APRS	90
K516	REMOVE OR INSTALL COMPONENTS OF AIR REFUELING HYDRAULIC	
	SYSTEMS	90
A4	COORDINATE WITH MAINTENANCE CONTROL ON MAINTENANCE	
	PROBLEMS	90
H304		90
	INSPECT AIRCRAFT INSTALLED ROTOR BRAKE SYSTEMS	90
H347	PERFORM OPERATIONAL CHECKS OF PNEUDRAULIC CARGO DOOR	
	SYSTEMS	90
	PAINT FACILITIES OR EQUIPMENT	90
	MAKE ENTRIES ON AF FORMS 1492 (DANGER)	90
	PERFORM OPERATIONAL CHECKS OF BRAKE SYSTEMS	90
	ISOLATE MALFUNCTIONS WITHIN AUXILIARY HYDRAULIC SYSTEMS	90
6229	INSPECT AIRCRAFT INSTALLED AILERON BOOST PACK ASSEMBLIES	90

TABLE IE

BOMBER/TANKER AIRCRAFT PNEUDRAULIC PERSONNEL (GRP222)

TASKS		PERCENT MEMBERS PERFORMING (N=312)
H297	PERFORM OPERATIONAL CHECKS OF AIR REFUELING SIGNAL SYSTEMS	98
H294		97
H307	PERFORM OPERATIONAL CHECKS OF BRAKE SYSTEMS	97
H296		97
K519	REMOVE OR INSTALL COMPONENTS OF AIR REFUELING SIGNAL SYSTEMS	96
H295		90
11293	SYSTEMS	96
K516		,0
KJ I U	SYSTEMS	96
K517		,,
1.51,	ASSEMBLIES	95
K565	REMOVE OR INSTALL ENGINE DRIVEN HYDRAULIC PUMPS	94
	PERFORM OPERATIONAL CHECKS OF COMPONENTS OF AIR REFUELING	
	HYDRAULIC SYSTEMS	93
H300	PERFORM OPERATIONAL CHECKS OF AIR REFUELING BOOM STOWAGE	
	LATCH CONTROL SYSTEMS	93
H293	PERFORM OPERATIONAL CHECKS OF AIR REFUELING ELECTRICAL	
	SYSTEMS	92
K543	REMOVE OR INSTALL COMPONENTS OF LANDING GEAR RETRACTION OR	
	EXTENSION SYSTEMS	91
H306	PERFORM OPERATIONAL CHECKS OF BOOM AIR REFUELING FUEL	
	SYSTEMS	91
G226	INSPECT AIR REFUELING HYDRAULIC SYSTEMS	91
_	PERFORM OPERATIONAL CHECKS OF AUXILIARY HYDRAULIC SYSTEMS	
	REMOVE OR INSTALL COMPONENTS OF AIRCRAFT BRAKE SYSTEMS	90
H360		90
E187	MAKE ENTRIES ON AFTO FORMS 781A (MAINTENANCE DISCREPANCY	
	AND WORK DOCUMENT)	90
J435		89
K518		
K562		89
G227	INSPECT AIR REFUELING INDICATING SYSTEMS	89
J440		89
G228	INSPECT AIR REFUELING SIGNAL SYSTEMS	89
1425	RIG AIR REFUELING BOOM CONTROL CABLES	88 88
1477(1	INSPECT AIR REFUELING ROOM CONTROL SYSTEMS	55





MICROCOPY RESOLUTION TEST CHART NATIONAL BUREAU OF STANDARDS-1963-A

TABLE II

PNEUDRAULIC FLIGHTLINE SUPERVISORS (GRP161)

TASKS		PERCENT MEMBERS PERFORMING (N=28)
G237	INSPECT AIRCRAFT INSTALLED BRAKE SYSTEM COMPONENTS INSPECT AIRCRAFT INSTALLED NOSE WHEEL STEERING SYSTEMS INSPECT AIRCRAFT INSTALLED LANDING GEAR EXTENSION OR	100
G261	INSPECT AIRCRAFT INSTALLED NOSE WHEEL STEERING SYSTEMS	100
G257	INSPECT AIRCRAFT INSTALLED LANDING GEAR EXTENSION OR	
	RETRACTION COMPONENTS INSPECT AIRCRAFT INSTALLED SHOCK STRUTS SUPERVISE AIRCRAFT PNEUDRAULIC SYSTEMS MECHANIC (AFSC 42354) PERSONNEL REVIEW MAINTENANCE DATA COLLECTION FORMS	100
G280	INSPECT AIRCRAFT INSTALLED SHOCK STRUTS	93
B57	SUPERVISE AIRCRAFT PNEUDRAULIC SYSTEMS MECHANIC (AFSC	
	42354) PERSONNEL	89
C98	REVIEW MAINTENANCE DATA COLLECTION FORMS	89
E187	MAKE ENTRIES ON AFTO FORMS 781A (MAINTENANCE DISCREPANCY	
	AND WORK DOCUMENT)	89
	INSPECT AIRCRAFT INSTALLED HYDRAULIC POWER SYSTEMS	89
C66	CLEAR RED X CONDITIONS	86
A5	COORDINATE WITH OTHER AIRCRAFT MAINTENANCE SHOPS ON	
	MAINTENANCE PROBLEMS	86
G262	COMPONENTS	86
G256	INSPECT AIRCRAFT INSTALLED LANDING GEAR DOOR ACTUATING	
	COMPONENTS	86
E184	MAKE ENTRIES ON AFTO FORMS 350 (REPARABLE ITEM PROCESSING	
	TAG)	86
H341	PERFORM OPERATIONAL CHECKS OF NOSE WHEEL STEERING SYSTEMS	86
B40	DIRECT FLIGHTLINE PNEUDRAULIC REPAIR OPERATIONS	82
C94		
	INSPECT AIRCRAFT INSTALLED POWER RUDDER SYSTEMS	82
B38		82
	PERFORM OPERATIONAL CHECKS OF BRAKE SYSTEMS MAKE ENTRIES ON AFTO FORMS 349 (MAINTENANCE DATA	82
E183		
	COLLECTION RECORD)	79
	INVENTORY EQUIPMENT, TOOLS, OR SUPPLIES	79
H331	PERFORM OPERATIONAL CHECKS OF HYDRAULIC POWER SYSTEMS	79
B59	SUPERVISE APPRENTICE AIRCRAFT PNEUDRAULIC SYSTEMS MECHANIC	
	(AFSC 42334) PERSONNEL	75
A33	SCHEDULE WORK ASSIGNMENTS AND PRIORITIES	75 25
G282	INSPECT AIRCRAFT INSTALLED SPEED BRAKE SYSTEMS	75 35
G230	INSPECT AIRCRAFT INSTALLED AILERON SYSTEMS	75 75
NOTI	CUMPUCT CUT	75 75
H35/	(AFSC 42334) PERSONNEL SCHEDULE WORK ASSIGNMENTS AND PRIORITIES INSPECT AIRCRAFT INSTALLED SPEED BRAKE SYSTEMS INSPECT AIRCRAFT INSTALLED AILERON SYSTEMS CONDUCT OJT PERFORM OPERATIONAL CHECKS OF RUDDER SYSTEMS	75 75

TABLE III

GENERAL PNEUDRAULIC MECHANICS (GRP93)

TASKS		PERCENT MEMBERS PERFORMING (N=129)
N723	SERVICE AIRCRAFT HYDRAULIC SYSTEMS	84
N702	BLEED OR SERVICE BRAKE SYSTEMS	83
K565	REMOVE OR INSTALL ENGINE DRIVEN HYDRAULIC PUMPS	83
H307	SERVICE AIRCRAFT HYDRAULIC SYSTEMS BLEED OR SERVICE BRAKE SYSTEMS REMOVE OR INSTALL ENGINE DRIVEN HYDRAULIC PUMPS PERFORM OPERATIONAL CHECKS OF BRAKE SYSTEMS	83
H341	PERFORM OPERATIONAL CHECKS OF NOSE WHEEL STEERING SYSTEMS	82
K543	REMOVE OR INSTALL COMPONENTS OF LANDING GEAR RETRACTION OR	
	EXTENSION SYSTEMS	78
K575	REMOVE OR INSTALL HYDRAULIC FILTER ASSEMBLIES OR ELEMENTS	70
N703	CONNECT OR DISCONNECT PORTABLE HYDRAULIC TEST STANDS TO OR FROM AIRCRAFT	
	* ***** * * * * * * * * * * * * * * *	, •
K586	SERVICE AIRCRAFT ACCUMULATORS	76
H291	PERFORM OPERATIONAL CHECKS OF AILERON SYSTEMS	75
E187	SERVICE AIRCRAFT ACCUMULATORS PERFORM OPERATIONAL CHECKS OF AILERON SYSTEMS MAKE ENTRIES ON AFTO FORMS 781A (MAINTENANCE DISCREPANCY	
H331	PERFORM OPERATIONAL CHECKS OF HYDRAULIC POWER SYSTEMS REMOVE OR INSTALL COMPONENTS OF RUDDER SYSTEMS PERFORM OPERATIONAL CHECKS OF RUDDER SYSTEMS REPACK SHOCK STRUTS ON AIRCRAFT	74
K557	REMOVE OR INSTALL COMPONENTS OF RUDDER SYSTEMS	73
H357	PERFORM OPERATIONAL CHECKS OF RUDDER SYSTEMS	68
K578	REPACK SHOCK STRUTS ON AIRCRAFT	68
N729	WALK WINGS OR TAILS DURING AIRCRAFT WALK WINGS OR TAILS DURING AIRCRAFT TOWING OPERATIONS PERFORM OPERATIONAL CHECKS OF SPEED BRAKE SYSTEMS REMOVE OR INSTALL COLFONENT; OF LANDING GEAR DOOR SYSTEMS	65
H358	PERFORM OPERATIONAL CHECKS OF SPEED BRAKE SYSTEMS	65
K542	REMOVE OR INSTALL COLPONENT; OF LANDING GEAR DOOR SYSTEMS	65
K546	REMOVE OR INSTALL COMPONENTS OF NOSE WHEEL STEERING SYSTEMS REMOVE OR INSTALL COMPONENTS OF AIRCRAFT BRAKE SYSTEMS OPEATE AEROSPACE GROUND EQUIPMENT (AGE), SUCH AS POWER UNITS, HEATERS, OR LIGHT CARTS	4-
	SYSTEMS	65
K523	REMOVE OR INSTALL COMPONENTS OF AIRCRAFT BRAKE SYSTEMS	64
N/09	OPEATE AEROSPACE GROUND EQUIPMENT (AGE), SUCH AS POWER	
	UNITS, HEATERS, OR LIGHT CARTS PERFORM OPERATIONAL CHECKS OF EMERGENCY HYDRAULIC SYSTEMS	63
H315	PERFORM OPERATIONAL CHECKS OF EMERGENCY HYDRAULIC SYSTEMS	63
K313 J470	REMOVE OR INSTALL COMPONENTS OF AILERON SYSTEMS	62
J4/U	ISOLATE MALFUNCTIONS WITHIN NOSE WHEEL STEERING HYDRAULIC	62
1336	SISIENS	02
1230	PERFORM OPERATIONAL CHECKS OF LANDING GEAR EMERGENCY SYSTEMS	62
7520	DEMOND OD INCARII COMPONENAS OF NADRILIC PORME CASABAS	61
K577	REMOVE OR INSTALL COMPONENTS OF HYDRAULIC POWER SYSTEMS REMOVE OR INSTALL TUBE ASSEMBLIES	60
K536	DEMONT OF INSTALL TUDE ASSEMBLIES	80
UCCA	CTARTITUDE OVORDIO	60
K 576	REMOVE OR INSTALL PNEUDRAULIC HOSE ASSEMBLIES REMOVE OR INSTALL COMPONENTS OF SPEED BRAKE SYSTEMS	5 8
K560	REMOVE OR INSTALL COMPONENTS OF SPEED REAKE SYSTEMS	57
1724	CEDUTOR ATDODATE CONFORMING OF STREET BRAKE SISIEND	51 57

BENEFIT RECEDENT PROCESSES PROCESSES PROCESSES

TABLE IV PNEUDRAULIC IN-FLIGHT REFUELING EQUIPMENT MECHANICS (GRP112)

TASKS		PERCENT MEMBERS PERFORMING (N=53)
K565	REMOVE OR INSTALL ENGINE DRIVEN HYDRAULIC PUMPS	96
K517		-
	ASSEMBLIES	92
K516	REMOVE OR INSTALL COMPONENTS OF AIR REFUELING HYDRAULIC	
	SYSTEMS	91
H294		
	SYSTEMS	91
H296		0.1
P107	SYSTEMS MAKE ENTRIES ON AFTO FORMS 701A (MAINTENANCE DISCREDANCE	91
E187	MAKE ENTRIES ON AFTO FORMS 781A (MAINTENANCE DISCREPANCY AND WORK DOCUMENT)	89
H297		_
E183		0)
2105	COLLECTION RECORD)	85
H307		85
E184		
	TAG)	83
1425		83
	REMOVE OR INSTALL HYDRAULIC FILTER ASSEMBLIES OR ELEMENTS	
	PERFORM OPERATIONAL CHECKS OF AUXILIARY HYDRAULIC SYSTEMS	83
H295	PERFORM OPERATIONAL CHECKS OF AIR REFUELING BOOM HOIST	00
WE CO	SYSTEMS PENOUT OF INCHAIL COMPONENTS OF OPOILER SYSTEMS	83 81
K562 H312		9.1
пэ12	HYDRAULIC SYSTEMS	79
H360	PERFORM OPERATIONAL CHECKS OF SPOILER SYSTEMS	79 79
K543		
	EXTENSION SYSTEMS	79
H293	PERFORM OPERATIONAL CHECKS OF AIR REFUELING ELECTRICAL	
	SYSTEMS	77
K518	REMOVE OR INSTALL COMPONENTS OF AIR REFUELING FUEL SYSTEMS	
	REMOVE OR INSTALL PNEUDRAULIC HOSE ASSEMBLIES	75
N702		75
K528	REMOVE OR INSTALL COMPONENTS OF AUXILIARY HYDRAULIC	
	SYSTEMS	75 74
	REMOVE OR INSTALL COMPONENTS OF AIRCRAFT BRAKE SYSTEMS	
K577 K519		70
VO 1A	REMOVE OR INSTALL COMPONENTS OF AIR REFUELING SIGNAL SYSTEMS	70
1.661	FABRICATE HIGH PRESSURE RUBBER HOSE ASSEMBLIES	68
~~~ I	TIMETALIN HIAH TIMEAAM VARARU HARR URARITARIR	-

TABLE V

IN-SHOP PNEUDRAULIC SUPERVISORS AND SUPPORT PERSONNEL (GRP47)

		PERCENT MEMBERS
TASKS		PERFORMING (N=127)
C101	WRITE APRS	87
	COUNSEL PERSONNEL ON PERSONAL OR MILITARY-RELATED MATTERS	
	INSPECT PERSONNEL FOR COMPLIANCE WITH MILITARY STANDARDS	
	ORIENT NEWLY ASSIGNED PERSONNEL	76
	CLEAR RED X CONDITIONS	74
A8	DETERMINE WORK PRIORITIES	72
	MAKE ENTRIES ON AFTO FORMS 350 (REPARABLE ITEM PROCESSING	• -
	TAG)	72
F207	INVENTORY EQUIPMENT, TOOLS, OR SUPPLIES	72
	COORDINATE WITH BASE SUPPLY ON OBTAINING PARTS	72
A5	COORDINATE WITH OTHER AIRCRAFT MAINTENANCE SHOPS ON	
	MAINTENANCE PROBLEMS	72
B57	SUPERVISE AIRCRAFT PNEUDRAULIC SYSTEMS MECHANIC (AFSC	
	42354) PERSONNEL	71
A20	PARTICIPATE IN MEETINGS, SUCH AS STAFF MEETINGS, BRIEFINGS, CONFERENCES, OR WORKSHOPS	71
A4	COORDINATE WITH MAINTENANCE CONTROL ON MAINTENANCE	
	PROBLEMS	71
C98	REVIEW MAINTENANCE DATA COLLECTION FORMS	71
E169	MAKE ENTRIES ON AF FORMS 2413 (SUPPLY CONTROL LOG)	70
E183	PROBLEMS REVIEW MAINTENANCE DATA COLLECTION FORMS MAKE ENTRIES ON AF FORMS 2413 (SUPPLY CONTROL LOG) MAKE ENTRIES ON AFTO FORMS 349 (MAINTENANCE DATA COLLECTION RECORD) CERTIEV STATUS OF DEPARABLE SERVICEABLE OF CONDEMNED	69
C65	CERTIFY STATUS OR REPARABLE, SERVICEABLE, OR CONDEMNED	
	PARTS	69
A33		65
B54		
	SUBORDINATES	64
	MAINTAIN CONSOLIDATED TOOL KITS	64
	REVIEW SUPPLY DAILY DOCUMENT REGISTERS	64
E187	MAKE ENTRIES ON AFTO FORMS 781A (MAINTENANCE DISCREPANCY AND WORK DOCUMENT)	64
E163	MAKE ENTRIES ON AF FORMS 1297 (TEMPORARY ISSUE RECEIPT)	63
C97		62
F202	ATTACH OR ANNOTATE EQUIPMENT STATUS LABELS OR TAGS, SUCH	
	AS DD FORMS 1574 (SERVICEABLE TAG-MATERIEL)	61
B59	SUPERVISE APPRENTICE AIRCRAFT PNEUDRAULIC SYSTEMS MECHANIC	-
	(AFSC 42334) PERSONNEL	61
A26	PLAN WORK ASSIGNMENTS	61
E149		61
C92	INDORSE AIRMAN PERFORMANCE REPORTS (APR)	60

#### TABLE VA

# SUPPLY PERSONNEL (GRP75)

<u>tasks</u>		PERCENT MEMBERS PERFORMING (N=11)
F211	MAINTAIN CONSOLIDATED TOOL KITS	100
F203	COORDINATE WITH BASE SUPPLY ON OBTAINING PARTS	100
	INVENTORY EQUIPMENT, TOOLS, OR SUPPLIES	91
M679	CLEAN TOOLS	91
E184	MAKE ENTRIES ON AFTO FORMS 350 (REPARABLE ITEM PROCESSING	
	TAG)	82
	MAKE ENTRIES ON AF FORMS 1297 (TEMPORARY ISSUE RECEIPT)	8.2
	PAINT FACILITIES OR EQUIPMENT	82
	MAINTAIN BENCHSTOCK PARTS OR EQUIPMENT LEVELS	73
M687	ISSUE OR RECEIVE TOOLS	73
F208	ISSUE SUPPLIES AND EQUIPMENT	73
F213	MAINTAIN ORGANIZATIONAL EQUIPMENT OR SUPPLY RECORDS	73
E169	MAKE ENTRIES ON AF FORMS 2413 (SUPPLY CONTROL LOG)	73
	ATTACH OR ANNOTATE EQUIPMENT STATUS LABELS OR TAGS, SUCH	
	AS DD FORMS 1574 (SERVICEABLE TAG-MATERIEL)	73
F219	RESEARCH MICROFICHE FILES FOR SUPPLY REQUISITION DATA	73
	EVALUATE SERVICEABILITY OF SUPPLIES OR EQUIPMENT	73
	REVIEW SUPPLY DAILY DOCUMENT REGISTERS	73
E149	COMPLETE AF FORMS 2005 (ISSUE/TURN IN REQUEST)	73
E190	MAKE ENTRIES ON DD FORMS 1348-1 (DOD SINGLE LINE ITEM	
	RELEASE/RECEIPT DOCUMENT)	73
	INVENTORY COMPOSITE TOOL KITS (CTK)	64
F209	LOG TURN-IN OF SUPPLIES AND EQUIPMENT	64
E183	MAKE ENTRIES ON AFTO FORMS 349 (MAINTENANCE DATA	
	COLLECTION RECORD)	64
F215	PREPARE DOCUMENTATION TO TURN IN EXCESS OR SURPLUS	
	PROPERTY	64
C65		
	PARTS	64
	WRITE APRS	64
	MAKE ENTRIES ON AFTO FORMS 110 (TECHNICAL ORDER	
	DISTRIBUTION RECORD)	55
A7	DETERMINE REQUIREMENTS FOR SPACE, EQUIPMENT, OR SUPPLIES	55
C94	DETERMINE REQUIREMENTS FOR SPACE, EQUIPMENT, OR SUPPLIES INSPECT PERSONNEL FOR COMPLIANCE WITH MILITARY STANDARDS DEPENDED PROJECTIONS FOR LOCAL DIRECTASE OF SUPPLY ITEMS	55
L 7 10	LEGING REQUISITIONS FOR LOCAL FUNCTIONS OF SOFERY TIENS	55
	ESTABLISH PROCEDURES FO ACCOUNTABILITY OF SUPPLIES AND	
	EQUIPMENT	55
	WRITE CORRESPONDENCE	55
C150		55
TLLハ	TABBICAME UICU DDECCIDE TEFICU UCCE ACCEMBITE	55

#### TABLE VB

# WORKING SUPERVISORS (GRP137)

TASKS		PERCENT MEMBERS PERFORMING (N=48)
L661	FABRICATE HIGH PRESSURE RUBBER HOSE ASSEMBLIES	96
L664	FABRICATE MEDIUM PRESSURE RUBBER HOSE ASSEMBLES	94
E184	MAKE ENTRIES ON AFTO FORMS 350 (REPARABLE ITEM PROCESSING	
	TAG)	92
M684	TAG) INSPECT SHOP HYDRAULIC TEST EQUIPMENT INVENTORY EQUIPMENT, TOOLS, OR SUPPLIES FABRICATE MEDIUM PRESSURE TEFLON HOSE ASSEMBLIES MAKE ENTRIES ON AF FORMS 2413 (SUPPLY CONTROL LOG) FABRICATE LOW PRESSURE RUBBER HOSE ASSEMBLIES	92
F207	INVENTORY EQUIPMENT, TOOLS, OR SUPPLIES	90
L665	INVENTORY EQUIPMENT, TOOLS, OR SUPPLIES FABRICATE MEDIUM PRESSURE TEFLON HOSE ASSEMBLIES MAKE ENTRIES ON AF FORMS 2413 (SUPPLY CONTROL LOG) FABRICATE LOW PRESSURE RUBBER HOSE ASSEMBLIES MAKE ENTRIES ON AFTO FORMS 349 (MAINTENANCE DATA COLLECTION RECORD DIRECT IN-SHOP PNEUDRAULIC REPAIR OPERATIONS MAINTAIN CONSOLIDATED TOOL KITS ASSEMBLE OR DISASSEMBLE ACCUMULATORS	90
E169	MAKE ENTRIES ON AF FORMS 2413 (SUPPLY CONTROL LOG)	88
L663	FABRICATE LOW PRESSURE RUBBER HOSE ASSEMBLIES	88
E183	MAKE ENTRIES ON AFTO FORMS 349 (MAINTENANCE DATA	
	COLLECTION RECORD	85
B41	DIRECT IN-SHOP PNEUDRAULIC REPAIR OPERATIONS	85
F211	MAINTAIN CONSOLIDATED TOOL KITS	85
17)03		83
B57	•	
	42354) PERSONNEL	81
C65		
	PARTS	81
<b>A8</b>		81
	BENCH CHECK HYDRAULIC ACTUATORS	81
	BENCH CHECK ACCUMULATORS	81
	WRITE APRS	81
	ASSEMBLE OR DISASSEMBLE BRAKE ASSEMBLIES	79
	BENCH CHECK BRAKE ASSEMBLIES	79
	CONDUCT OJT	79
-	CLEAN TOOLS	79
B38		79
	ASSEMBLE OR DISASSEMBLE HYDRAULIC ACTUATING CYLINDERS	79
B56		79
B59		
	(AFSC 42334) PERSONNEL	77
F202		
	AS DD FORMS 1574 (SERVICEABLE TAG-MATERIEL)	77
E87		
	AND WORK DOCUMENT)	77
	COORDINATE WITH BASE SUPPLY ON OBTAINING PARTS	75
L662	FABRICATE HIGH PRESSURE TEFLON HOSE ASSEMBLIES	75
1603	ASSEMBLE OF DISASSEMBLE SHOCK STRIFTS	75

## NCOIC SHOP AND BRANCH CHIEFS

Š			
		TABLE VC	
		NCOIC SHOP AND BRANCH CHIEFS (GRP168)	
3			
2000	TASKS		PERCENT MEMBERS PERFORMIN (N=39)
S			<u> </u>
	A20	PARTICIPATE IN MEETINGS, SUCH AS STAFF MEETINGS, BRIEFINGS, CONFERENCES, OR WORKSHOPS	97
	С94	INSPECT PERSONNEL FOR COMPLIANCE WITH MILITARY STANDARDS	97
	C101	WRITE APRS	97
	B54	INTERPRET POLICIES, DIRECTIVES, OR PROCEDURES FOR	97
	B38	SUBORDINATES COUNSEL PERSONNEL ON PERSONAL OR MILITARY-RELATED MATTERS	97 97
	A1	ASSIGN PERSONNEL TO DUTY POSITIONS	95
	A32	SCHEDULE LEAVES, PASSES, OR TDY	95
	A2	ASSIGN SPONSORS FOR NEWLY ASSIGNED PERSONNEL	95
A.	A17	ESTABLISH PERFORMANCE STANDARDS FOR SUBORDINATES	92 92
	A33 A26	SCHEDULE WORK ASSIGNMENTS AND PRIORITIES PLAN WORK ASSIGNMENTS	92 92
	C103	_	92
	A5	COORDINATE WITH OTHR AIRCRAFT MAINTENANCE SHOPS ON	
	7000	MAINTENANCE PROBLEMS	90
is Labori	F203 C98	COORDINATE WITH BASE SUPPLY ON OBTAINING PARTS REVIEW MAINTENANCE DATA COLLECTION FORMS	90 90
	A4	COORDINATE WITH MAINTENANCE CONTROL ON MAINTENANCE	90
		PROBLEMS	90
	A19	ESTABLISH WORK SCHEDULES	90
<u>\$</u>	A13	DEVELOP WORK METHODS OR PROCEDURES	90
.ia	B56	ORIENT NEWLY ASSIGNED PERSONNEL CLEAR RED X CONDITIONS	90 90
ð	C66 C76		90
	070	RECLASSIFICATION	90
	C99	REVIEW SUPPLY DAILY DOCUMENT REGISTERS	87
N N	A8	DETERMINE WORK PRIORITIES	87
		WRITE CORRESPONDENCE	87 87
		INDORSE AIRMAN PERFORMANCE REPORTS (APR) MAINTAIN MAINTENANCE MANAGEMENT INFORMATION AND CONTROL	87
	EIJO	SYSTEM (MMICS) WORKCENTER LISTINGS	87
	F207	INVENTORY EQUIPMENT, TOOLS, OR SUPPLIES	87
Si di	C74	EVALUATE COMPLIANCE WITH PERFORMANCE STANDARDS	85
9	C65	CERTIFY STATUS OF REPARABLE, SERVICEABLE, OR CONDEMNED	05
	COZ	PARTS REVIEW EQUIPMENT FORMS	85 85
		ANALYZE WORKLOAD REQUIREMENTS	85
		DETERMINE OJT TRAINING REQUIREMENTS	85
	A6	DETERMINE PERSONNEL REQUIREMENTS	82
***			
	A13		
Manage Co.			

#### TABLE VI

## IN-SHOP PNEUDRAULIC REPAIRMEN (GRP79)

		PERCENT MEMBERS PERFORMING
TASKS		(N=113)
L664	FABRICATE MEDIUM PRESSURE RUBBER HOSE ASSEMBLIES FABRICATE HIGH PRESSURE RUBBER HOSE ASSEMBLIES FABRICATE LOW PRESSURE RUBBER HOSE ASSEMBLIES ASSEMBLE OR DISASSEMBLE BRAKE ASSEMBLIES ASSEMBLE OR DISASSEMBLE ACCUMULATORS BENCH CHECK BRAKE ASSEMBLIES FABRICATE MEDIUM PRESSURE TEFLON HOSE ASSEMBLIES FABRICATE HIGH PRESSURE TEFLON HOSE ASSEMBLIES BENCH CHECK HYDRAULIC ACTUATORS CLEAN TOOLS BENCH CHECK ACCUMULATORS	95
L661	FABRICATE HIGH PRESSURE RUBBER HOSE ASSEMBLIES	95
L663	FABRICATE LOW PRESSURE RUBBER HOSE ASSEMBLIES	90
L591	ASSEMBLE OR DISASSEMBLE BRAKE ASSEMBLIES	89
L589	ASSEMBLE OR DISASSEMBLE ACCUMULATORS	88
L609	BENCH CHECK BRAKE ASSEMBLIES	85
L665	FABRICATE MEDIUM PRESSURE TEFLON HOSE ASSEMBLIES	83
L662	FABRICATE HIGH PRESSURE TEFLON HOSE ASSEMBLIES	83
L635	BENCH CHECK HYDRAULIC ACTUATORS	82
M679	CLEAN TOOLS	81
L604	BENCH CHECK ACCUMULATORS ASSEMBLE OR DISASSEMBLE HYDRAULIC ACTUATING CYLINDERS	81
L595	ASSEMBLE OR DISASSEMBLE HYDRAULIC ACTUATING CYLINDERS	74
	COLLECTION RECORD)	73
E184	MAKE ENTRIES ON AFTO FORMS 349 (MAINTENANCE DATA COLLECTION RECORD) MAKE ENTRIES ON AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG) CLEAN AND INSPECT AIRCRAFT BRAKE ASSEMBLIES INVENTORY COMPOSITE TOOL KITS (CTK) CLEAN OR LUBRICATE HOSE FABRICATION EQUIPMENT INSPECT HOSE FABRICATION EQUIPMENT CLEAN OR LUBRICATE SHOP HYDRAULIC TEST EQUIPMENT BLEED OR SERVICE BRAKE SYSTEMS ASSEMBLE OR DISASSEMBLE HYDRAULIC VALVES INSPECT SHOP HYDRAULIC TEST EQUIPMENT CLEAN OR LUBRICATE HYDRAULIC COMPONENTS OF TEST STANDS	
	TAG)	71
L659	CLEAN AND INSPECT AIRCRAFT BRAKE ASSEMBLIES	67
N705	INVENTORY COMPOSITE TOOL KITS (CTK)	65
M676	CLEAN OR LUBRICATE HOSE FABRICATION EQUIPMENT	65
M682	INSPECT HOSE FABRICATION EQUIPMENT	64
M678	CLEAN OR LUBRICATE SHOP HYDRAULIC TEST EQUIPMENT	64
N702	BLEED OR SERVICE BRAKE SYSTEMS	63
L598	ASSEMBLE OR DISASSEMBLE HYDRAULIC VALVES	62
M684	INSPECT SHOP HYDRAULIC TEST EQUIPMENT	61
M677	CLEAN OR LUBRICATE HYDRAULIC COMPONENTS OF TEST STANDS	59
E187	INSPECT SHOP HYDRAULIC TEST EQUIPMENT CLEAN OR LUBRICATE HYDRAULIC COMPONENTS OF TEST STANDS MAKE ENTRIES ON AFTO FORMS 781A (MAINTENANCE DISCREPANCY AND WORK DOCUMENT)	
	AND WORK DOCUMENT)	58
F207	AND WORK DOCUMENT) INVENTORY EQUIPMENT, TOOLS, OR SUPPLIES ASSEMBLE OR DISASSEMBLE SHOCK STRUTS PERFORM OPERATIONAL CHECKS OF BRAKE SYSTEMS REMOVE OR INSTALL PNEUDRAULIC HOSE ASSEMBLIES REMOVE OR INSTALL ENGINE DRIVEN HYDRAULIC PUMPS ASSEMBLE OR DISASSEMBLE HYDRAULIC FILTER ASSEMBLIES SERVICE AIRCRAFT HYDRAULIC SYSTEMS	57
L603	ASSEMBLE OR DISASSEMBLE SHOCK STRUTS	57
H307	PERFORM OPERATIONAL CHECKS OF BRAKE SYSTEMS	57
K576	REMOVE OR INSTALL PNEUDRAULIC HOSE ASSEMBLIES	54
<b>K</b> 565	REMOVE OR INSTALL ENGINE DRIVEN HYDRAULIC PUMPS	53
L596	ASSEMBLE OR DISASSEMBLE HYDRAULIC FILTER ASSEMBLIES	53 52
K575	REMOVE OR INSTALL HYDRAULIC FILTER ASSEMBLIES OR ELEMENTS	50
K577	REMOVE OR INSTALL TUBE ASSEMBLIES	50
	SERVICE AIRCRAFT ACCUMULATORS	50
	PAINT FACILITIES OR EQUIPMENT	48
M701		47

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	TABLE VII	
	CUT PERSONNEL	
	(GRP57)	
		PERCENT
		MEMBERS
<b>71.07.0</b>		PERFORMING
TASKS		(N=57)
N723	SERVICE AIRCRAFT HYDRAULIC SYSTEMS	100
	JACK OR LEVEL AIRCRAFT	95
	TOW AIRCRAFT	91
	WALK WINGS OR TAILS DURING AIRCRAFT TOWING OPERATIONS	91
	LAUNCH OR RECOVER AIRCRAFT	86
N709		
	UNITS, HEATERS, OR LIGHT CARTS	86
N703	CONNECT OR DISCONNECT PORTABLE HYDRAULIC TEST STANDS TO OR	
	FROM AIRCRAFT	86
N716	POSITION NONPOWERED OR POWERED AGE TO AIRCRAFT	82
	POSITION OR REMOVE AIRCRAFT CHOCKS OR GROUND SAFETY PINS	77
N704	GROUND AIRCRAFT	77
N702		77
	PERFORM SINGLE-POINT AIRCRAFT REFUELING OR DEFUELING	73
	PERFORM THRUFLIGHT OR POSTFLIGHT INSPECTIONS	68
	PERFORM PREFLIGHT INSPECTIONS	68
K543	REMOVE OR INSTALL COMPONENTS OF LANDING GEAR RETRACTION OR	(0
WZOC	EXTENSION SYSTEMS	68
	INVENTORY COMPOSITE TOOL KITS (CTK)	64
E187	MAKE ENTRIES ON AFTO FORMS 781A (MAINTENANCE DISCREPANCY AND WORK DOCUMENT)	64
M720	REMOVE OR REPLACE AIRCRAFT BRAKE ASSEMBLIES	64
	SERVICE AIRCRAFT SHOCK STRUTS	64
	MAKE ENTRIES ON AFTO FORMS 781K (AEROSPACE VEHICLE	04
2107	INSPECTION AND DELAYED DISCREPANCY DOCUMENT)	64
E184	MAKE ENTRIES ON AFTO FORMS 350 (REPARABLE ITEM PROCESSING	•
2.01	TAG)	64
G237	INSPECT AIRCRAFT INSTALLED BRAKE SYSTEM COMPONENTS	64
	INSPECT AIRCRAFT INSTALLED LANDING GEAR EXTENSION OR	
-20.	RETRACTION COMPONENTS	64
<b>K</b> 576	REMOVE OR INSTALL PNEUDRAULIC HOSE ASSEMBLIES	64
	SERVICE AIRCRAFT TIRES	59
	REMOVE OR REPLACE AIRCRAFT WHEEL ASSEMBLIES	59
	PERFORM OPERATIONAL CHECKS OF BRAKE SYSTEMS	59
	REMOVE OR INSTALL TUBE ASSEMBLIES	59
	REMOVE OR INSTALL COMPONENTS OF SHOCK STRUTS	59
	INSPECT AIRCRAFT INSTALLED SHOCK STRUTS	59
<b>K</b> 539	REMOVE OR INSTALL COMPONENTS OF HYDRAULIC POWER SYSTEMS	55
A15		

#### TABLE VIII

# TRAINING SUPERVISORS AND FTD INSTRUCTORS (GRP65)

TASKS		PERCENT MEMBERC PERFORMING (N=21)
D141	PREPARE LESSON PLANS	95
	ADMINISTER STUDENT CRITIQUES	95
	ADMINISTER TESTS	90
	SCORE TESTS	90
	DEVELOP TRAINING AIDS	90
D122	DEVELOP PERFORMANCE TESTS	81
C94	INSPECT PERSONNEL FOR COMPLIANCE WITH MILITARY STANDARDS	81
D147	WRITE TEST QUESTIONS	76
		76
H331	PERFORM OPERATIONAL CHECKS OF HYDRAULIC POWER SYSTEMS	76
H307	PERFORM OPERATIONAL CHECKS OF BRAKE SYSTEMS	76
E187	MAKE ENTRIES ON AFTO FORMS 781A (MAINTENANCE DISCREPANCY	76
D1/0	AND WORK DOCUMENT)	76 71
	PREPARE INSTRUCTION TRAINING AREAS OR FACILITIES	71
	COUNSEL TRAINES ON TRAINING PROGRESS	71
	MAINTAIN STUDY REFERENCE FILES	/1
E154	MAINTAIN COUNSELING FORMS, SUCH AS STUDENT COUNSELING FORMS	71
A20		/1
AZU	CONFERENCES, OR WORKSHOPS	71
H257	PERFORM OPERATIONAL CHECKS OF RUDDER SYSTEMS	71
	EVALUATE TRAINING MATERIALS OR AIDS	67
	DEVELOP FORMAL COURSE CURRICULA, PLANS OF INSTRUCTION	0,
DIZU	(POI), OR SPECIALTY TRAINING STANDARDS (STS)	67
D1 35	INSPECT TRAINING AIDS FOR OPERATION OR SUITABILITY	67
	CONDUCT SAFETY TRAINING	67
	PROCURE TRAINING AIDS, SPACE, OR EQUIPMENT	67
D137	MAINTAIN TRAINING RECORDS, CHARTS, OR GRAPHS	67
H336	PERFORM OPERATIONAL CHECKS OF LANDING GEAR EMERGENCY	•
******	SYSTEMS	67
B54		•
	SUBORDINATES	67
H341	PERFORM OPERATIONAL CHECKS OF NOSE WHEEL STEERING SYSTEMS	
	PERFORM OPERATIONAL CHECKS OF HYDRAULIC PRESSURE	•
	INDICATING SYSTEMS	67
H335	PERFORM OPERATIONAL CHECKS OF LANDING GEAR DOOR SEQUENCING	
	MECHANISMS	67
H358	PERFORM OPERATIONAL CHECKS OF SPEED BRAKE SYSTEMS	67
	EVALUATE TRAINING METHODS OR TECHNIQUES	62
	PUATIAND INCIDENCE DESCRIPTIONS ON INCIDENTAL STATEMENT OF THE STATEMENT O	62

#### TABLE IX

# TECHNICAL SCHOOL INSTRUCTORS (GRP83)

TASKS		MEMBERS PERFORMING (N=16)
D145	SCORE TESTS	100
D141	PREPARE LESSON PLANS	100
D107	ADMINISTER TESTS	94
D106	ADMINISTER STUDENT CRITIQUES	94
D116	COUNSEL TRAINEES ON TRAINING PROGRESS	88
D112	CONDUCT RESIDENT COURSE CLASSROOM TRAINING	81
E154	MAINTAIN COUNSELING FORMS, SUCH AS STUDENT COUNSELING FORMS	75
D122	DEVELOP PERFORMANCE TESTS	75 75
	MAINTAIN TRAINING RECORDS, CHARTS, OR GRAPHS	63
	CONDUCT SAFETY TRAINING	56
DIIO	INSPECT PERSONNEL FOR COMPLIANCE WITH MILITARY STANDARDS	56
D1/A	PREPARE INSTRUCTION TRAINING AREAS OR FACILITIES	56
		56
	WRITE TEST QUESTIONS EVALUATE STUDENT QUESTIONNAIRES OR CRITIQUES	56
D20	COUNCES DESCONDES ON DESCONAS OF MISSIANDA DESCRIPTO MATTERS	50 50
DJ0	COUNSEL PERSONNEL ON PERSONAL OR MILITARY-RELATED MATTERS INSPECT TRAINING AIDS FOR OPERATION OR SUITABILITY	50 50
נכזע	INSPECT INMINING AIDS FOR OPERATION OR SUTINGILITY	30
	MAKE ENTRIES ON AF FORMS 1297 (TEMPORARY ISSUE RECEIPT)	44
	EVALUATE TRAINING MATERIALS OR AIDS	44
D124	DEVELOP TRAINING AIDS	
LY/	REVIEW EQUIPMENT FORMS  MAKE ENTRIES ON AFTO FORMS 349 (MAINTENANCE DATA  COLLECTION RECORD)  SELECT INDIVIDUALS FOR SPECIALIZED TRAINING  REVIEW MAINTENANCE DATA COLLECTION FORMS	44
F193	MARE ENIKIES UN AFIU FUKIS 349 (MAINIENANCE DAIA	44
D1//	COLLECTION RECORD)	44
D140	SELECT INDIVIDUALS FOR SPECIALIZED TRAINING	38
		38
D120	DEVELOP FORMAL COURSE CURRICULA, PLANS OF INSTRUCTION	00
E187		38
	AND WORK DOCUMENT)	38
B56	ORIENT NEWLY ASSIGNED PERSONNEL	31
C96	PERFORM SAFETY INSPECTIONS OF EQUIPMENT OR FACILITIES	31
A13	DEVELOP WORK METHODS OR PROCEDURES	31
E184	MAKE ENTRIES ON AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG)	31
E179	MAKE ENTRIES ON AFTO FORMS 244 (SYSTEM/EQUIPMENT STATUS	<b>~</b> •
	RECORD)	31
D132		25
C74		25
	ADVICE INIT CTAFE DEDCOMMET ON TRAINING MATTERS	25

# TABLE X

# IN-FLIGHT REFUELING EQUIPMENT INSTRUCTORS (GRP100)

TASKS		PERCENT MEMBERS PERFORMING (N=11)
-		
H294	PERFORM OPERATIONAL CHECKS OF AIR REFUELING HYDRAULIC	100
****	SYSTEMS	100
H297		100
H300	PERFORM OPERATIONAL CHECKS OF AIR REFUELING BOOM STOWAGE	100
11005	LATCH CONTROL SYSTEMS	100
H295		100
T0//	SYSTEMS	100
1300	ADJUST AIR REFUELING BOOM HOIST SYSTEMS ISOLATE MALFUNCTIONS WITHIN AIR REFUELING SIGNAL SYSTEMS PERFORM OPERATIONAL CHECKS OF AIR REFUELING DROGUE SYSTEMS ISOLATE MALFUNCTIONS WITHIN AIR REFUELING DROGUE SYSTEMS	91
J435	DEDECTM OPERATIONAL CHECKS OF ALL DEFINE INC. DECCHE SYSTEMS	91 91
H298	PERFORM OPERATIONAL CHECKS OF AIR REFUELING DROUGE SYSTEMS	91 91
J432	ISOLATE MALFUNCTIONS WITHIN AIR REFUELING DROGUE SISTEMS	82
1425	RIG AIR REFUELING BOOM CONTROL CABLES ISOLATE MALFUNCTIONS WITHIN AIR REFUELING BOOM ASSEMBLIES	82 82
J430	ISOLATE MALTUNCTIONS WITHIN AIR REFUELING BOOM GROUPER	82
J431		82
0000	LATCH CONTROL SYSTEMS	82 82
G228		82 82
J429		82 82
K367	ADJUST AIR REFUELING DROGUE SYSTEMS PERFORM OPERATIONAL CHECKS OF AIR REFUELING INDICATING	82
H296		82
0007	SYSTEMS  AND DEFINE INC. INDICAMING GUCCERG	82 82
G227		82 82
G223	INSPECT AIR REFUELING DROGUE SYSTEMS	82 82
G221	INSPECT AIR REFUELING BOOM HOIST SYSTEMS	82 82
J433	ISOLATE MALFUNCTIONS WITHIN AIR REFUELING FUEL TOTALIZERS	82
<b>I426</b>	RIG COMPONENTS OF AIR REFUELING BOOM STOWAGE LATCH CONTROL	
11000	SYSTEMS  PROPERTY OF A TRANSPORT OF	73
n299	PERFORM OPERATIONAL CHECKS OF AIR REFUELING RECEIVER	73
T260	SYSTEMS  AD THOM ALD DEFINELING INDICATING GYOTTEMS	73 73
1369	ADJUST AIR REFUELING INDICATING SYSTEMS PERFORM OPERATIONAL CHECKS OF AIR REFUELING ELECTRICAL	/3
n293		70
T/ 0/	SYSTEMS	73 73
J434		73 73
1397	ADJUST HYDRAULIC COMPONENTS OF AIR REFUELING BOOM SYSTEMS	73
	INSPECT AIR REFUELING HYDRAULIC SYSTEMS	73 72
G220	INSPECT AIR REFUELING BOOM CONTROL SYSTEMS	73 73
G224	INSPECT AIR REFUELING ELECTRICAL SYSTEMS	73
G225	INSPECT AIR REFUELING FUEL SYSTEMS, OTHER THAN IN-PROGESS	70
0000	INSPECTIONS  NAME AND DESIGNATION OF TAXABLE CONTROL OF TAXABLE CONTRO	73
G222	INSPECT AIR REFUELING BOOM STOWAGE LATCH CONTROL SYSTEMS	73

#### TABLE XI

# MAC INSPECTORS (GRP114)

TASKS		PERCENT MEMBERS PERFORMING (N=21)
G237	INSPECT AIRCRAFT INSTALLED BRAKE SYSTEM COMPONENTS PERFORM OPERATIONAL CHECKS OF BRAKE SYSTEMS INSPECT AIRCRAFT INSTALLED ELEVATOR HYDRAULIC SYSTEMS INSPECT AIRCRAFT INSTALLED NOSE WHEEL STEERING SYSTEM	95
H307	PERFORM OPERATIONAL CHECKS OF BRAKE SYSTEMS	95
G240	INSPECT AIRCRAFT INSTALLED ELEVATOR HYDRAULIC SYSTEMS	90
G262	INSPECT AIRCRAFT INSTALLED NOSE WHEEL STEERING SYSTEM	
	COMPONENTS PERFORM OPERATIONAL CHECKS OF AUXILIARY HYDRAULIC SYSTEMS PERFORM OPERATIONAL CHECKS OF ELEVATOR SYSTEMS PERFORM OPERATIONAL CHECKS OF AILERON SYSTEMS INSPECT AIRCRAFT INSTALLED LANDING GEAR EXTENSION OR RETRACTION COMPONENTS INSPECT AIRCRAFT INSTALLED POWER RUDDER SYSTEMS INSPECT AIRCRAFT INSTALLED AUXILIARY HYDRAULIC SYSTEMS MAKE ENTRIES ON AFTO FORMS 781A (MAINTENANCE DISCREPANCY AND WORK DOCUMENT) INSPECT AIRCRAFT INSTALLED NOSE WHEEL STEERING SYSTEMS INSPECT AIRCRAFT INSTALLED AILERON SYSTEMS	86
H304	PERFORM OPERATIONAL CHECKS OF AUXILIARY HYDRAULIC SYSTEMS	86
H314	PERFORM OPERATIONAL CHECKS OF ELEVATOR SYSTEMS	86
H291	PERFORM OPERATIONAL CHECKS OF AILERON SYSTEMS	86
G257	INSPECT AIRCRAFT INSTALLED LANDING GEAR EXTENSION OR	
	RETRACTION COMPONENTS	81
G272	INSPECT AIRCRAFT INSTALLED POWER RUDDER SYSTEMS	81
G236	INSPECT AIRCRAFT INSTALLED AUXILIARY HYDRAULIC SYSTEMS	81
E187	MAKE ENTRIES ON AFTO FORMS 781A (MAINTENANCE DISCREPANCY	
	AND WORK DOCUMENT)	81
G261	INSPECT AIRCRAFT INSTALLED NOSE WHEEL STEERING SYSTEMS	81
G230	INSPECT AIRCRAFT INSTALLED AILERON SYSTEMS INSPECT AIRCRAFT INSTALLED PNEUDRAULIC CARGO DOOR SYSTEMS ISOLATE MALFUNCTIONS WITHIN ELEVATOR SYSTEMS INSPECT AIRCRAFT INSTALLED HYDRAULIC POWER SYSTEMS REMOVE OR INSTALL HYDRAULIC FILTER ASSEMBLIES OR ELEMENTS REMOVE OR INSTALL COMPONENTS OF ELEVATOR SYSTEMS ISOLATE MALFUNCTIONS WITHIN BRAKE SYSTEMS BLEED OR SERVICE BRAKE SYSTEMS INSPECT AIRCRAFT INSTALLED FLEVATOR POOST DACK ASSEMBLIES	76
G268	INSPECT AIRCRAFT INSTALLED PNEUDRAULIC CARGO DOOR SYSTEMS	76
J445	ISOLATE MALFUNCTIONS WITHIN ELEVATOR SYSTEMS	76
G253	INSPECT AIRCRAFT INSTALLED HYDRAULIC POWER SYSTEMS	71
K575	REMOVE OR INSTALL HYDRAULIC FILTER ASSEMBLIES OR ELEMENTS	71
K531	REMOVE OR INSTALL COMPONENTS OF ELEVATOR SYSTEMS	71
J440	ISOLATE MALFUNCTIONS WITHIN BRAKE SYSTEMS	71
N702	INSPECT AIRCRAFT INSTALLED ELEVATOR BOOST PACK ASSEMBLIES INSPECT AIRCRAFT INSTALLED RUDDER BOOST PACK ASSEMBLIES INSPECT AIRCRAFT INSTALLED SPOILER SYSTEMS PERFORM OPERATIONAL CHECKS OF RUDDER SYSTEMS INSPECT AIRCRAFT INSTALLED PITCH TRIM HYDRAULIC SYSTEMS PERFORM OPERATIONAL CHECKS OF HYDRAULIC POWER SYSTEMS REMOVE OR INSTALL COMPONENTS OF RUDDER SYSTEMS REMOVE OR INSTALL ENGINE DRIVEN HYDRAULIC PUMPS REMOVE OR INSTALL COMPONENTS OF LANDING GEAR RETRACTION OR	71
G239	INSPECT AIRCRAFT INSTALLED ELEVATOR BOOST PACK ASSEMBLIES	67
G279	INSPECT AIRCRAFT INSTALLED RUDDER BOOST PACK ASSEMBLIES	67
G284	INSPECT AIRCRAFT INSTALLED SPOILER SYSTEMS	67
H357	PERFORM OPERATIONAL CHECKS OF RUDDER SYSTEMS	67
G265	INSPECT AIRCRAFT INSTALLED PITCH TRIM HYDRAULIC SYSTEMS	67
H331	PERFORM OPERATIONAL CHECKS OF HYDRAULIC POWER SYSTEMS	67
K557	REMOVE OR INSTALL COMPONENTS OF RUDDER SYSTEMS	67
K565	REMOVE OR INSTALL ENGINE DRIVEN HYDRAULIC PUMPS REMOVE OR INSTALL COMPONENTS OF LANDING GEAR RETRACTION OR EXTENSION SYSTEMS	67
K543		<b>/-</b>
		67
E183		40
0051	COLLECTION RECORD)	62
G256		62
0000	COMPONENTS INSPECT HYDRAULIC PRESSIDE INDICATING SYSTEMS	62 62
1.7XX	INSPECT MYDRAIDIC PRESSURE INDICATING SYSTEMS	D/

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#### TABLE XII

# SAC QUALITY CONTROL PERSONNEL (GRP91)

TASKS		PERCENT MEMBERS PERFORMING (N=11)
G237	INSPECT AIRCRAFT INSTALLED BRAKE SYSTEM COMPONENTS INSPECT AIRCRAFT INSTALLED LANDING GEAR EXTENSION OR RETRACTION COMPONENTS INSPECT AIRCRAFT INSTALLED SPOILER SYSTEMS INSPECT AIRCRAFT INSTALLED SHOCK STRUTS INSPECT AIR REFUELING HYDRAULIC SYSTEMS INSPECT AIRCRAFT INSTALLED AUXILIARY HYDRAULIC SYSTEMS INSPECT AIRCRAFT INSTALLED NOSE WHEEL STEERING SYSTEMS INSPECT AIRCRAFT INSTALLED HYDRAULIC POWER SYSTEMS REVIEW EQUIPMENT FORMS INSPECT AIR REFUELING SIGNAL SYSTEMS INSPECT AIRCRAFT INSTALLED ANTI-SKID CONTROL VALVES INSPECT AIRCRAFT INSTALLED NOSE WHEEL STEERING SYSTEM COMPONENTS INSPECT AIR REFUELING INDICATING SYSTEMS INSPECT AIRCRAFT INSTALLED LANDING GEAR DOOR ACTUATING	100
G257	INSPECT AIRCRAFT INSTALLED LANDING GEAR EXTENSION OR	
	RETRACTION COMPONENTS	91
G284	INSPECT AIRCRAFT INSTALLED SPOILER SYSTEMS	91
G280	INSPECT AIRCRAFT INSTALLED SHOCK STRUTS	91
G226	INSPECT AIR REFUELING HYDRAULIC SYSTEMS	91
G236	INSPECT AIRCRAFT INSTALLED AUXILIARY HYDRAULIC SYSTEMS	91
G261	INSPECT AIRCRAFT INSTALLED NOSE WHEEL STEERING SYSTEMS	91
G253	INSPECT AIRCRAFT INSTALLED HYDRAULIC POWER SYSTEMS	82
C97	REVIEW EQUIPMENT FORMS	82
G228	INSPECT AIR REFUELING SIGNAL SYSTEMS	82
G233	INSPECT AIRCRAFT INSTALLED ANTI-SKID CONTROL VALVES	82
G262	INSPECT AIRCRAFT INSTALLED NOSE WHEEL STEERING SYSTEM	
	COMPONENTS	82
G227	INSPECT AIR REFUELING INDICATING SYSTEMS	82
G256	INSPECT AIRCRAFT INSTALLED LANDING GEAR DOOR ACTUATING	
	COMPONENTS	/3
E187		
	AND WORK DOCUMENT)	73
G220	INSPECT AIR REFUELING BOOM CONTROL SYSTEMS	73
G232	INSPECT AIRCRAFT INSTALLED AIR REFUELING BOOM ASSEMBLIES	73
G275		
	SYSTEMS	73
G225	INSPECT AIR REFUELING FUEL SYSTEMS, OTHER THAN IN-PROGRESS	
	INSPECTIONS	73
C67	CONDUCT INSPECTIONS OF ORGANIZATIONAL FOULTPMENT	64
G272	INSPECT AIRCRAFT INSTALLED POWER RUDDER SYSTEMS	64
G274	INSPECT AIRCRAFT INSTALLED RECEIVER AIR REFUELING SYSTEMS	64
C96	INSPECT AIRCRAFT INSTALLED POWER RUDDER SYSTEMS INSPECT AIRCRAFT INSTALLED RECEIVER AIR REFUELING SYSTEMS PERFORM SAFETY INSPECTIONS OF EQUIPMENT OR FACILITIES INSPECT AIRCRAFT INSTALLED SPEED BRAKE SYSTEMS INSPECT HYDRAULIC PRESSURE INDICATING SYSTEMS INSPECT AIR REFUELING DROGUE SYSTEMS ORIENT NEWLY ASSIGNED PERSONNEL INSPECT AIR REFUELING ELECTRICAL SYSTEMS INSPECT AIRCRAFT INSTALLED PNEUDRAULIC CARGO DOOR SYSTEMS	64
G282	INSPECT AIRCRAFT INSTALLED SPEED BRAKE SYSTEMS	64
G288	INSPECT HYDRAULIC PRESSURE INDICATING SYSTEMS	64
G223	INSPECT AIR REFUELING DROGUE SYSTEMS	64
B56	ORIENT NEWLY ASSIGNED PERSONNEL	64
G224	INSPECT AIR REFUELING ELECTRICAL SYSTEMS	64
G268	INSPECT AIRCRAFT INSTALLED PNEUDRAULIC CARGO DOOR SYSTEMS	64
A5	COORDINATE WITH OTHER AIRCRAFT MAINTENANCE SHOPS ON	
<del>-</del>	MAINTENANCE PROBLEMS	64
C86		55
G276	INSPECT ATROPATT INSTALLED ROTOR BRAKE SYSTEMS	55
C94	INSPECT PERSONNEL FOR COMPLIANCE WITH MILITARY STANDARDS	55

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